

10581412

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptasxml624

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS	3	NOV 26	MARPAT enhanced with FSORT command
NEWS	4	NOV 26	CHEMSAFE now available on STN Easy
NEWS	5	NOV 26	Two new SET commands increase convenience of STN searching
NEWS	6	DEC 01	ChemPort single article sales feature unavailable
NEWS	7	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS	8	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS	9	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS	10	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS	11	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS	12	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS	13	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS	14	FEB 10	COMPENDEX reloaded and enhanced
NEWS	15	FEB 11	WTEXTILES reloaded and enhanced
NEWS	16	FEB 19	New patent-examiner citations in 300,000 CA/CAPLUS patent records provide insights into related prior art
NEWS	17	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS	18	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS	19	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS	20	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS	21	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS	22	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS	23	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS	24	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants

10581412

NEWS 25 MAR 11 ESBIODBASE reloaded and enhanced  
NEWS 26 MAR 20 CAS databases on STN enhanced with new super role  
for nanomaterial substances

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN Customer  
agreement. Please note that this agreement limits use to scientific  
research. Use for software development or design or implementation  
of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:04:54 ON 21 MAR 2009

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 14:05:09 ON 21 MAR 2009  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 20 MAR 2009 HIGHEST RN 1124448-78-7  
DICTIONARY FILE UPDATES: 20 MAR 2009 HIGHEST RN 1124448-78-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

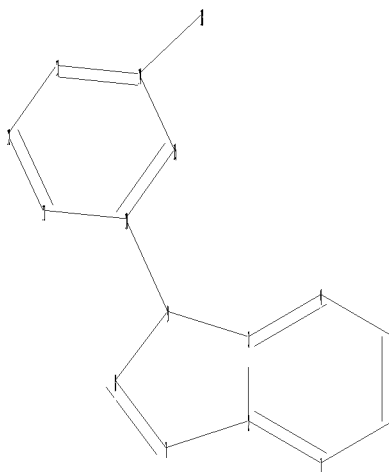
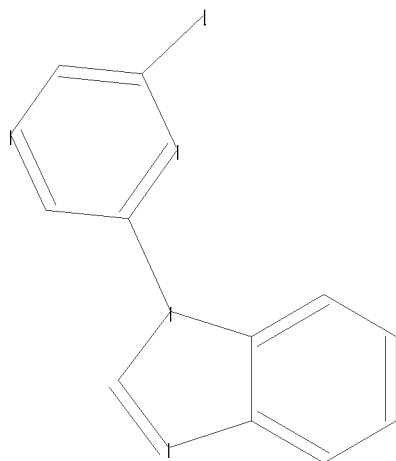
REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10581412.str

10581412



```
ring nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13  14  15
ring/chain nodes :
18
chain bonds :
9-10  14-18
ring bonds :
1-2  1-6  2-3  2-7  3-4  3-9  4-5  5-6  7-8  8-9  10-11  10-15  11-12  12-13  13-14
14-15
exact/norm bonds :
2-7  3-9  7-8  8-9  9-10
exact bonds :
14-18
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6  10-11  10-15  11-12  12-13  13-14  14-15
isolated ring systems :
containing 1 : 10 :
```

G1:C,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 18:Atom

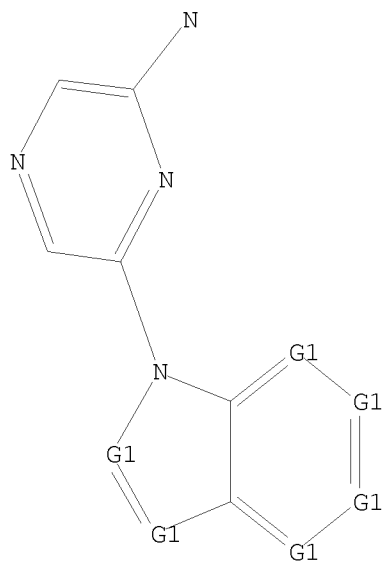
L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR

10581412



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 14:05:29 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 183 TO ITERATE

100.0% PROCESSED 183 ITERATIONS

19 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2849 TO 4471

PROJECTED ANSWERS: 119 TO 641

L2 19 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 14:05:38 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 3270 TO ITERATE

100.0% PROCESSED 3270 ITERATIONS

405 ANSWERS

SEARCH TIME: 00.00.01

L3 405 SEA SSS FUL L1

=> fil capl

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

185.88

186.10

FILE 'CAPLUS' ENTERED AT 14:05:41 ON 21 MAR 2009

10581412

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 21 Mar 2009 VOL 150 ISS 13  
FILE LAST UPDATED: 20 Mar 2009 (20090320/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 11 L3

=> d 14 ibib hitstr abs 1-11

10581412

L4 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1190716 CAPLUS

DOCUMENT NUMBER: 149:524574

TITLE: Structure-activity relationships of pyrazine-based CK2 inhibitors: synthesis and evaluation of 2,6-disubstituted pyrazines and 4,6-disubstituted pyrimidines

AUTHOR(S): Suzuki, Yamato; Cluzeau, Jerome; Hara, Takafumi; Hirasawa, Akira; Tsujimoto, Gozoh; Oishi, Shinya; Ohno, Hiroaki; Fujii, Nobutaka

CORPORATE SOURCE: Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, Japan

SOURCE: Archiv der Pharmazie (Weinheim, Germany) (2008), 341(9), 554-561

CODEN: ARPMAS; ISSN: 0365-6233

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 875900-14-4P 1078718-42-9P 1078718-43-0P

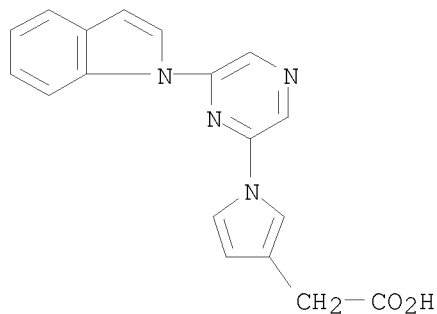
1078718-44-1P 1078718-45-2P 1078718-46-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Structure-activity relationships of pyrazine-based CK2 inhibitors: synthesis and evaluation of 2,6-disubstituted pyrazines and 4,6-disubstituted pyrimidines)

RN 875900-14-4 CAPLUS

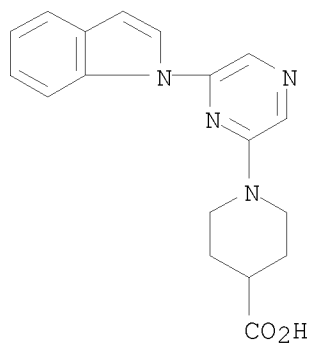
CN 1H-Pyrrole-3-acetic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)



RN 1078718-42-9 CAPLUS

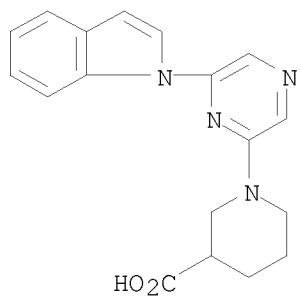
CN 4-Piperidinecarboxylic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)

10581412



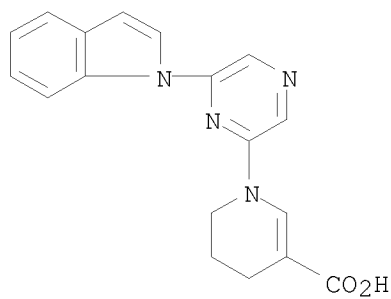
RN 1078718-43-0 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)



RN 1078718-44-1 CAPLUS

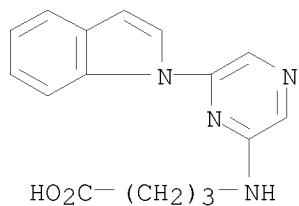
CN 3-Pyridinecarboxylic acid, 1,4,5,6-tetrahydro-1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)



RN 1078718-45-2 CAPLUS

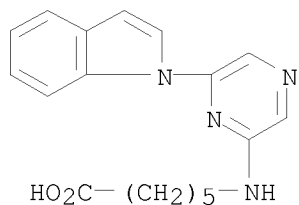
CN Butanoic acid, 4-[[6-(1H-indol-1-yl)-2-pyrazinyl]amino]- (CA INDEX NAME)

10581412



RN 1078718-46-3 CAPLUS

CN Hexanoic acid, 6-[[6-(1H-indol-1-yl)-2-pyrazinyl]amino]- (CA INDEX NAME)



AB Structually related to the known CK2 inhibitors, 2,6-disubstituted pyrazine and 4,6-disubstituted pyrimidine derivs. were synthesized and their inhibitory activities toward CK2 $\alpha$  and CK2 $\alpha'$  were evaluated. Structure-activity relationship study has revealed that several pyrazine derivs. bearing a (pyrrol-3-yl)acetic acid and a monosubstituted aniline possess potent inhibitory activities.

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



10581412

L4 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1097319 CAPLUS  
DOCUMENT NUMBER: 149:299805  
TITLE: Antitumor agents containing pyrazine derivatives  
INVENTOR(S): Sekitani, Yumiko; Yamada, Masaki; Nishimura, Kazumi  
PATENT ASSIGNEE(S): Toray Industries, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 80pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008208074	A	20080911	JP 2007-46700	20070227
PRIORITY APPLN. INFO.:			JP 2007-46700	20070227

OTHER SOURCE(S): MARPAT 149:299805

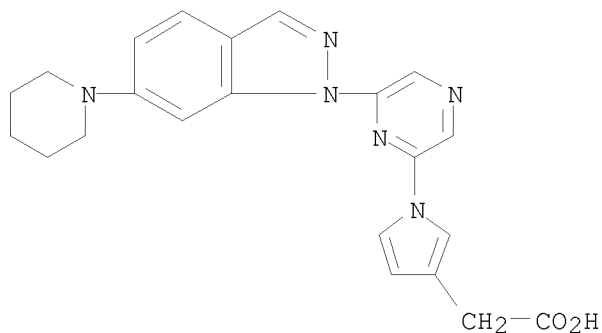
IT 940882-05-3P 940882-36-0P 940882-38-2P  
940882-52-0P 940882-56-4P 940882-66-6P  
940882-70-2P 940882-77-9P 940882-78-0P  
1050682-08-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

(antitumor agents containing pyrazine derivs.)

RN 940882-05-3 CAPLUS

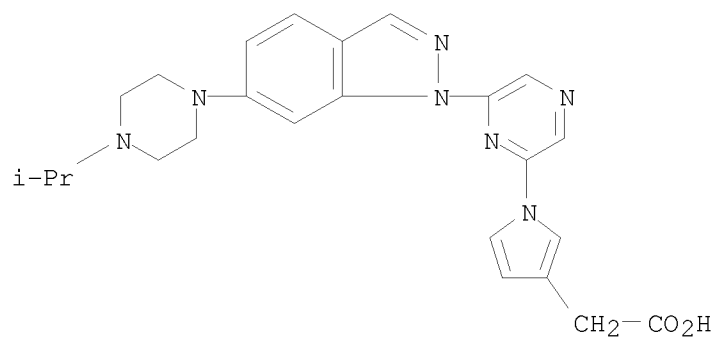
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1-piperidiny1)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-36-0 CAPLUS

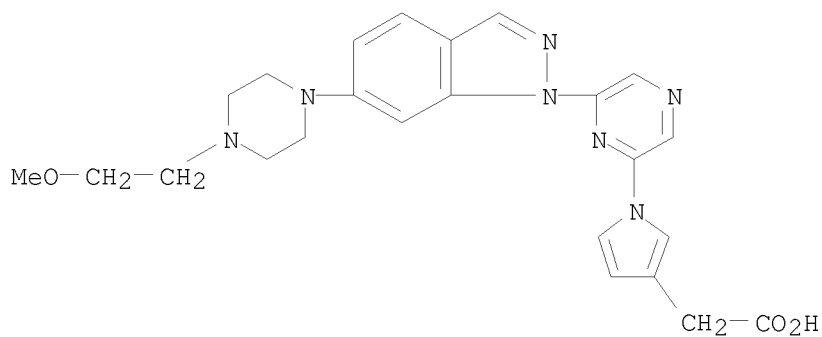
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(1-methylethyl)-1-piperazinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



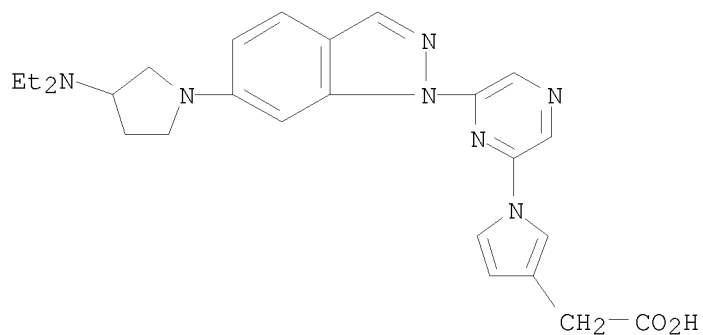
RN 940882-38-2 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(2-methoxyethyl)-1-piperazinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-52-0 CAPLUS

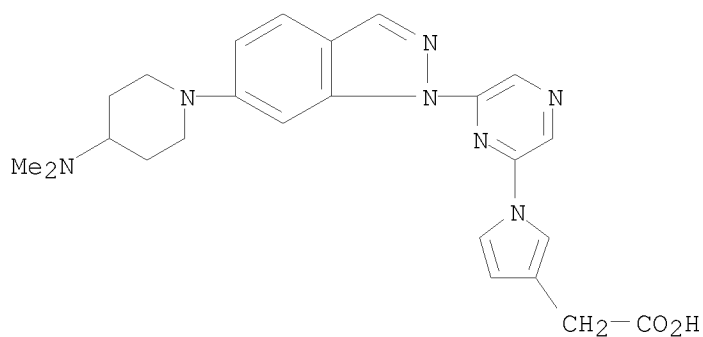
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[3-(diethylamino)-1-pyrrolidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



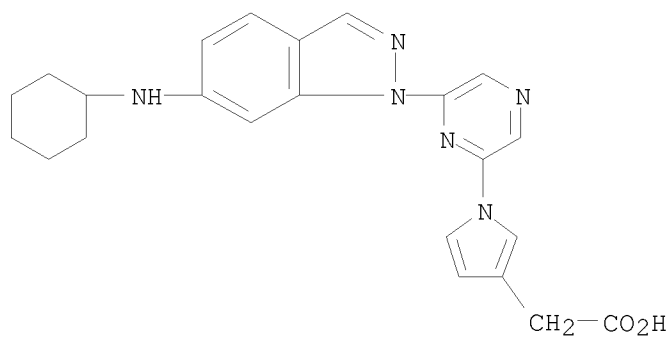
RN 940882-56-4 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(dimethylamino)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

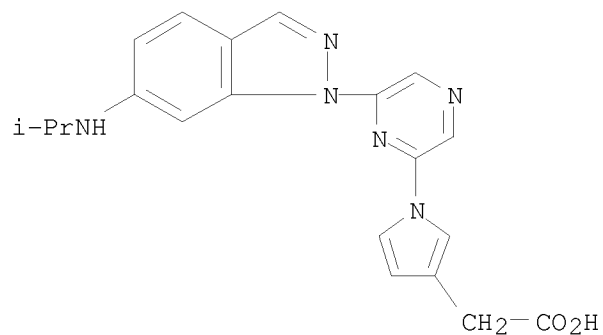
10581412



RN 940882-66-6 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cyclohexylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

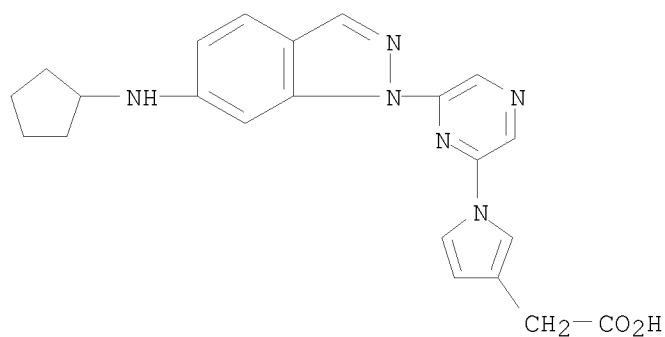


RN 940882-70-2 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(1-methylethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



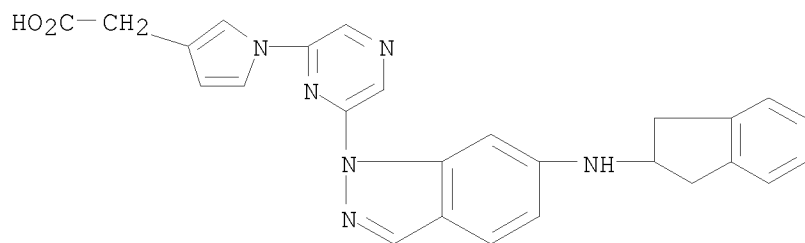
RN 940882-77-9 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cyclopentylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



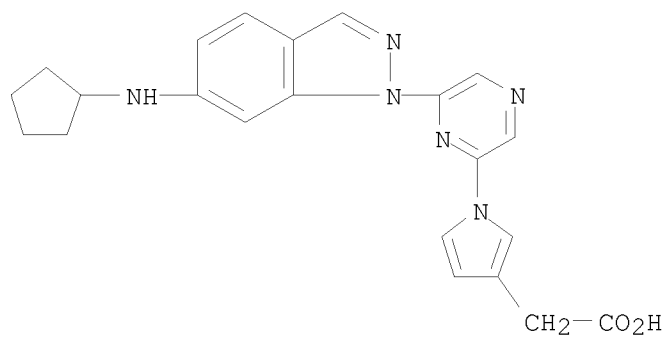
RN 940882-78-0 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(2,3-dihydro-1H-inden-2-yl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 1050682-08-0 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cyclopentylamino)-1H-indazol-1-yl]-2-pyrazinyl]-, sodium salt (1:1) (CA INDEX NAME)



● Na

IT 940881-86-7P 940881-92-5P 940881-98-1P  
940882-03-1P 940882-07-5P 940882-11-1P  
940882-15-5P 940882-19-9P 940882-23-5P

10581412

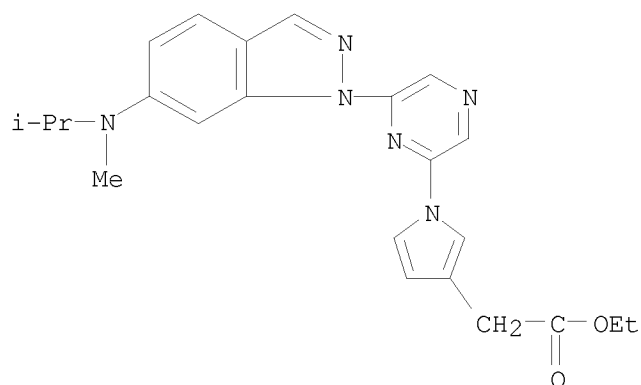
940882-25-7P 940882-27-9P 940882-29-1P  
940882-31-5P 940882-33-7P 940882-34-8P  
940882-35-9P 940882-37-1P 940882-39-3P  
940882-41-7P 940882-43-9P 940882-45-1P  
940882-47-3P 940882-49-5P 940882-51-9P  
940882-53-1P 940882-55-3P 940882-57-5P  
940882-59-7P 940882-61-1P 940882-63-3P  
940882-64-4P

RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use);  
BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent);  
USES (Uses)

(antitumor agents containing pyrazine derivs.)

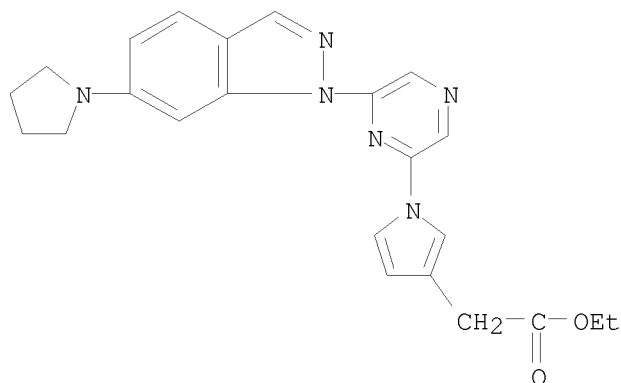
RN 940881-86-7 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[methyl(1-methylethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940881-92-5 CAPLUS

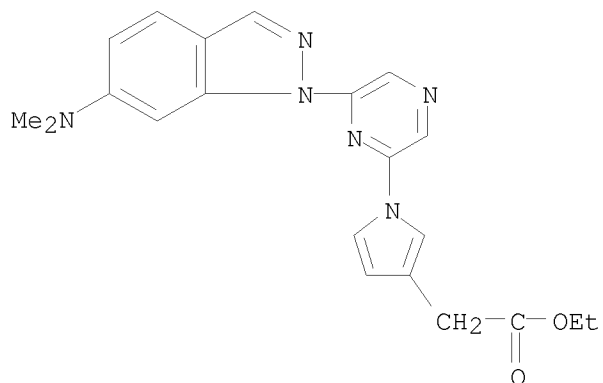
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1-pyrrolidinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940881-98-1 CAPLUS

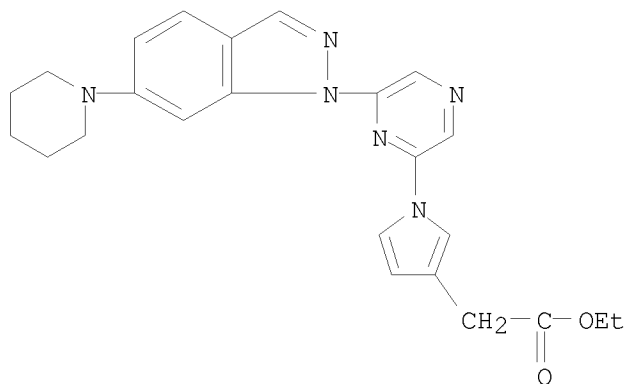
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(dimethylamino)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-03-1 CAPLUS

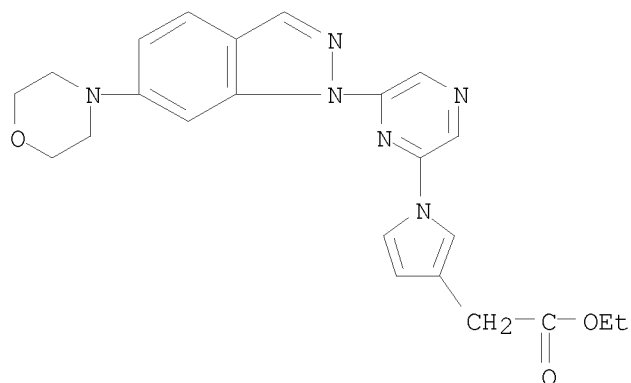
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-07-5 CAPLUS

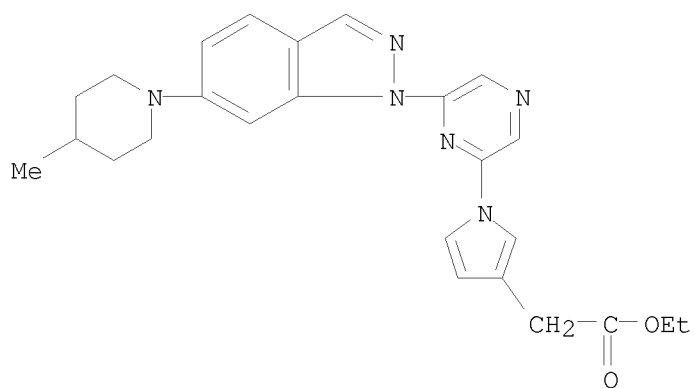
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-morpholinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-11-1 CAPLUS

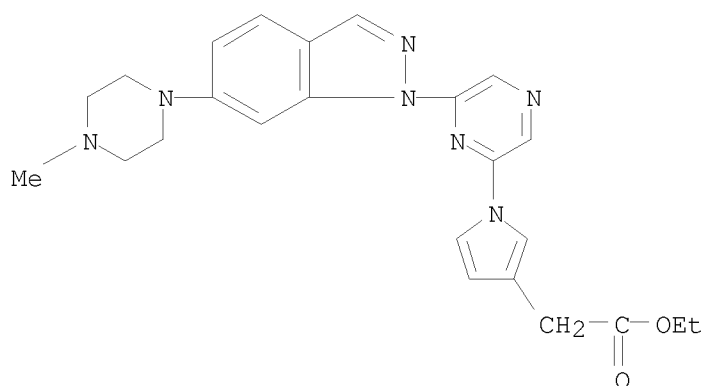
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methyl-1-piperidiny1)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-15-5 CAPLUS

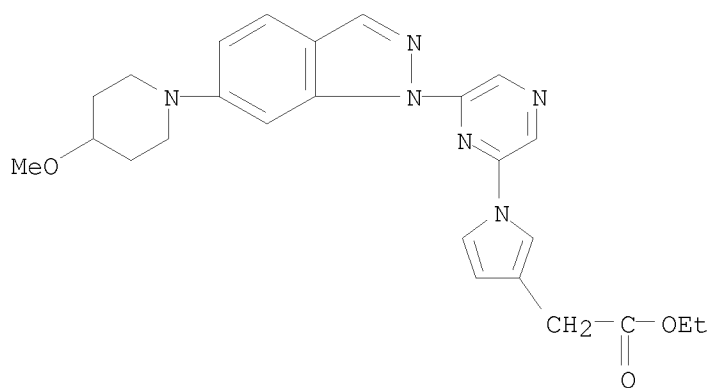
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methyl-1-piperidiny1)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-19-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methoxy-1-piperidiny1)-1H-indazol-1-yl]-2-pyraziny1]-, ethyl ester (CA INDEX NAME)

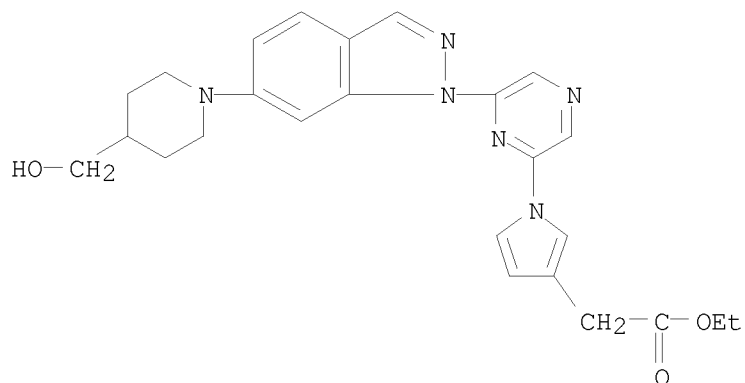


RN 940882-23-5 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(hydroxymethyl)-1-piperidiny1]-1H-indazol-1-yl]-2-pyraziny1]-, ethyl ester (CA INDEX NAME)

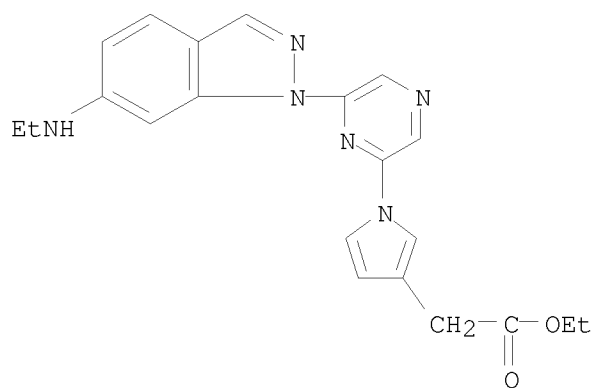


10581412



RN 940882-25-7 CAPLUS

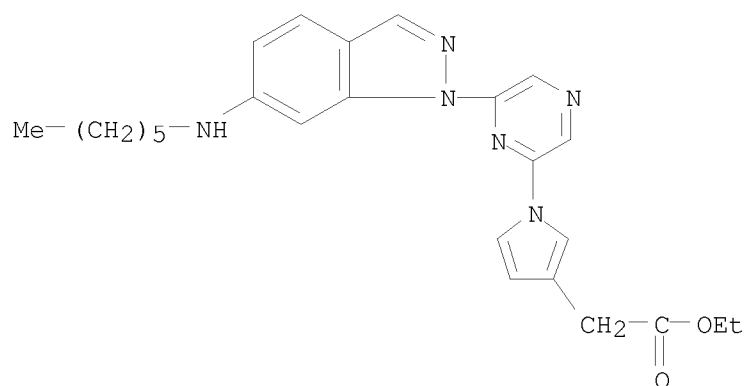
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(ethylamino)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-27-9 CAPLUS

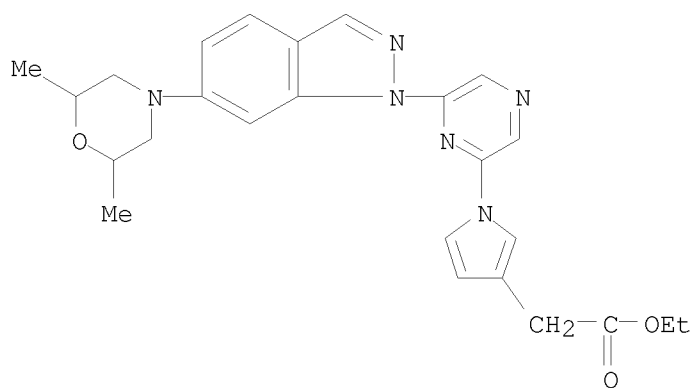
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(hexylamino)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-29-1 CAPLUS

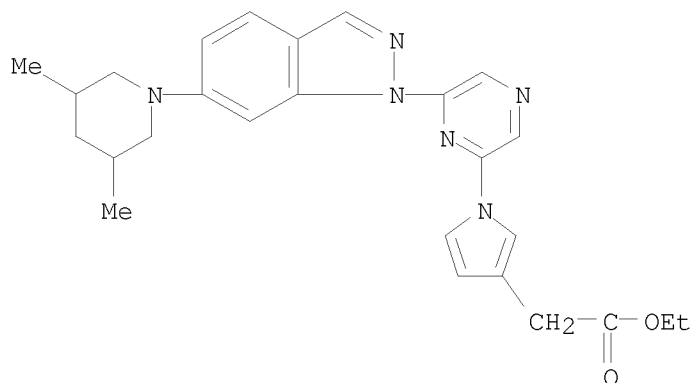
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(2,6-dimethyl-4-morpholinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-31-5 CAPLUS

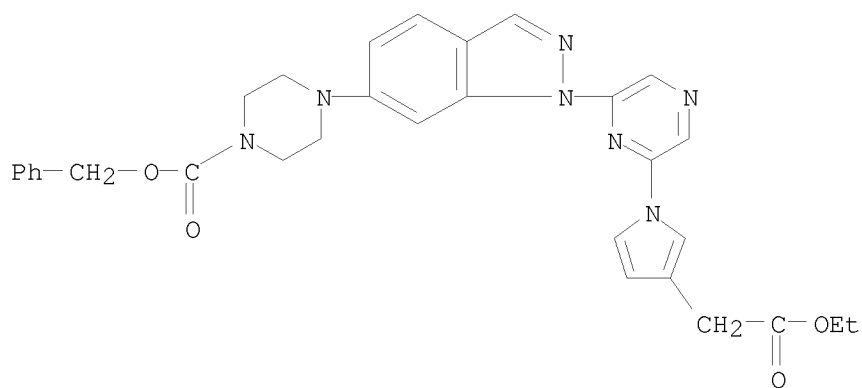
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(3,5-dimethyl-1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-33-7 CAPLUS

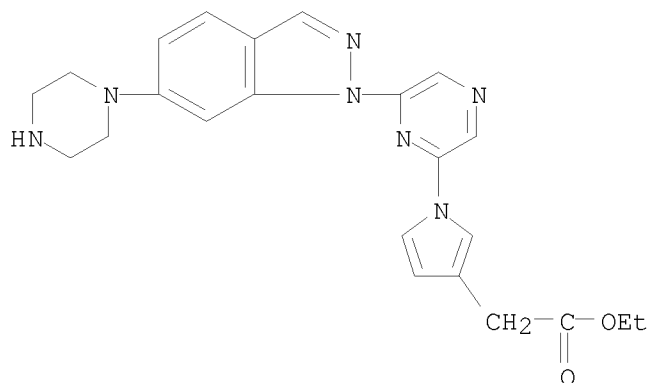
CN 1-Piperazinecarboxylic acid, 4-[1-[6-[3-(2-ethoxy-2-oxoethyl)-1H-pyrrol-1-yl]-2-pyrazinyl]-1H-indazol-6-yl]-, phenylmethyl ester (CA INDEX NAME)



RN 940882-34-8 CAPLUS

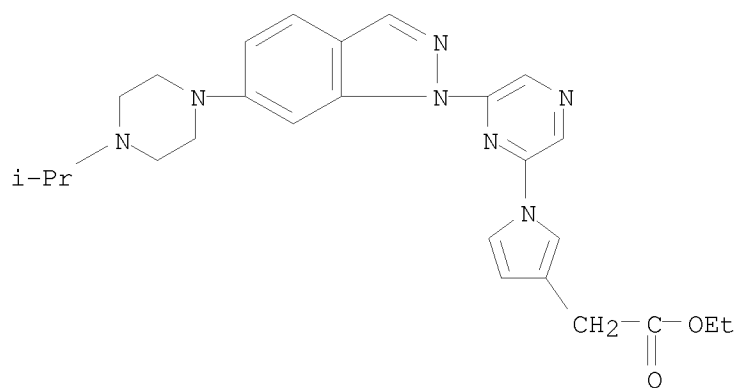
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1-piperazinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-35-9 CAPLUS

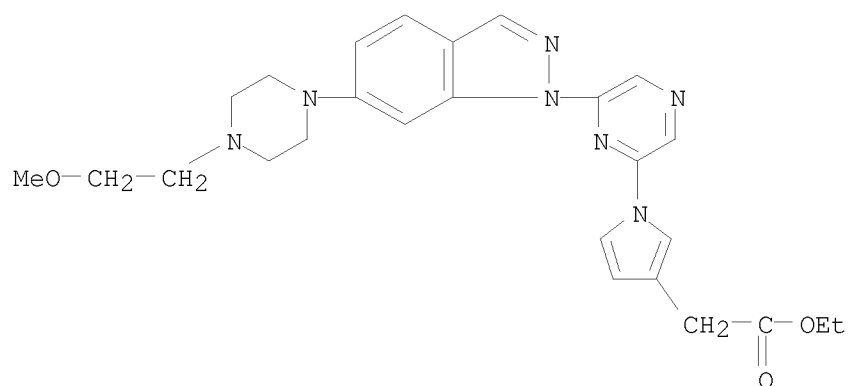
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(1-methylethyl)-1-piperazinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-37-1 CAPLUS

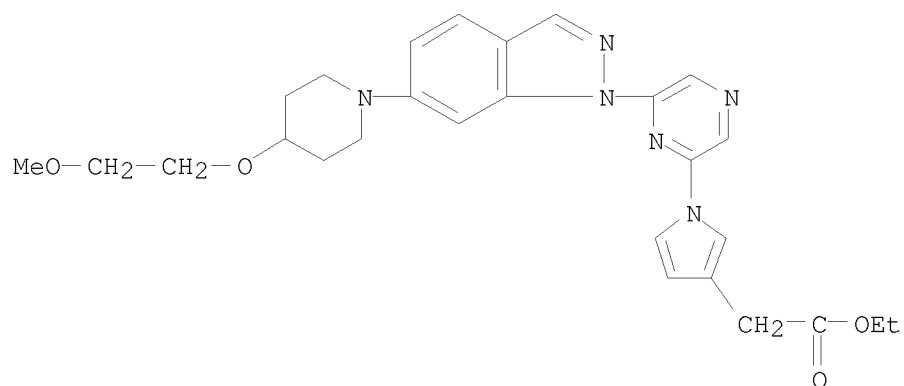
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(2-methoxyethyl)-1-piperazinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-39-3 CAPLUS

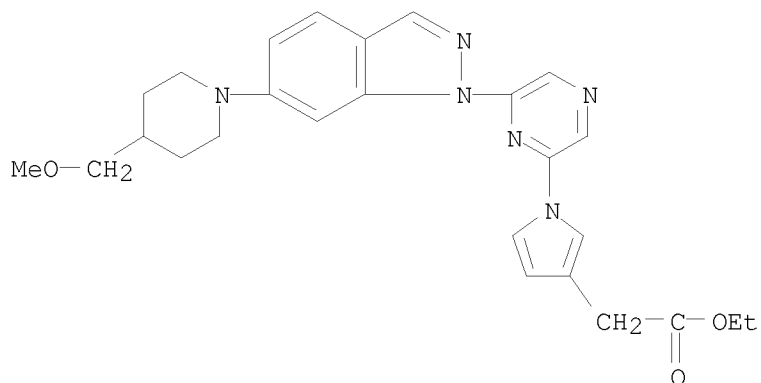
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(2-methoxyethoxy)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-41-7 CAPLUS

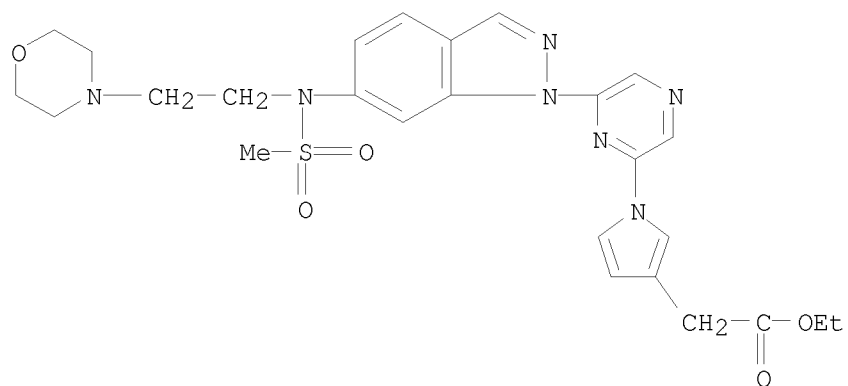
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(methoxymethyl)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-43-9 CAPLUS

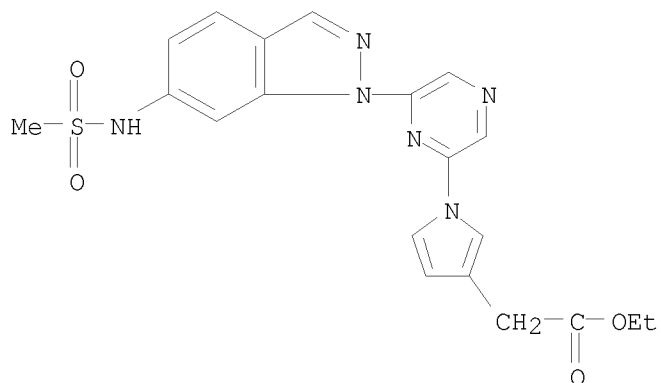
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(methoxymethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-45-1 CAPLUS

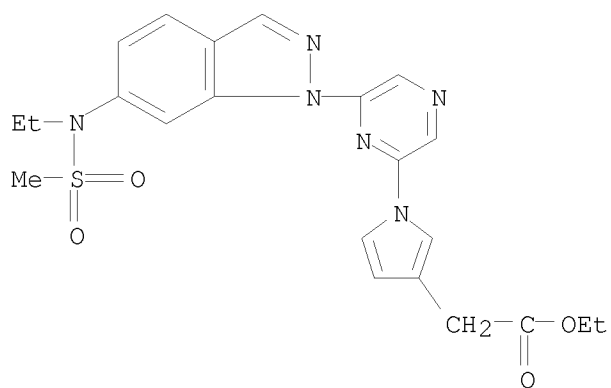
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(methylsulfonyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-47-3 CAPLUS

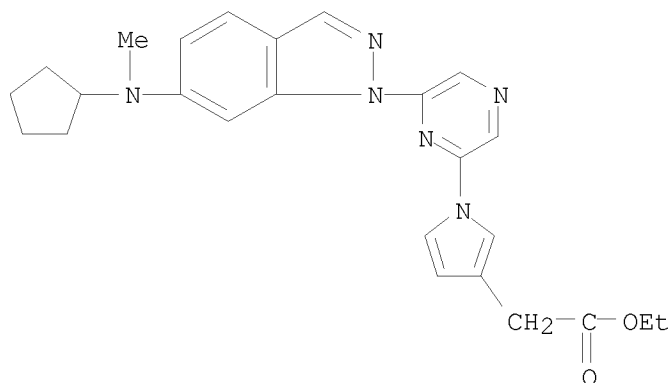
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(ethyl(methylsulfonyl)amino)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-49-5 CAPLUS

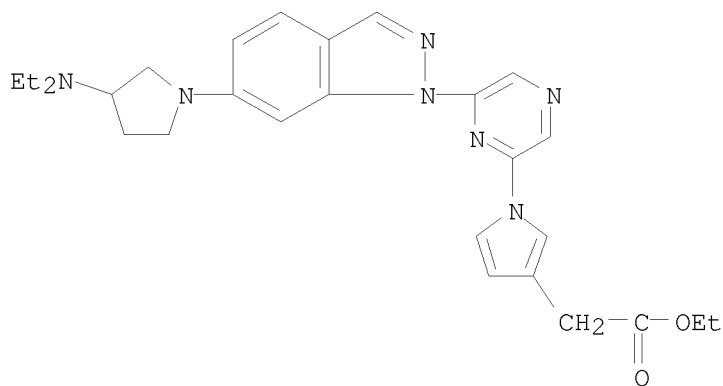
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cyclopentylmethylamino)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-51-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[3-(diethylamino)-1-pyrrolidinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

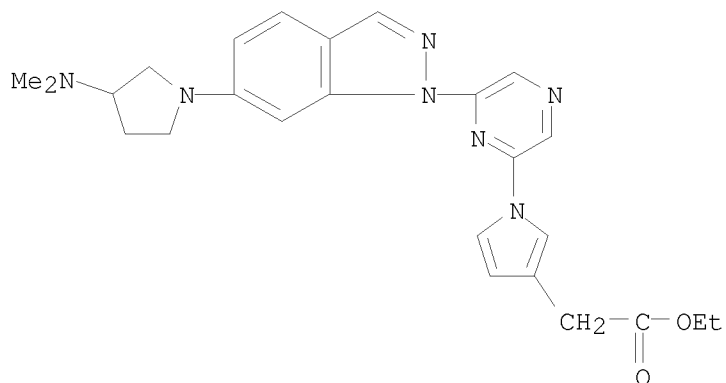


RN 940882-53-1 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[3-(dimethylamino)-1-pyrrolidinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

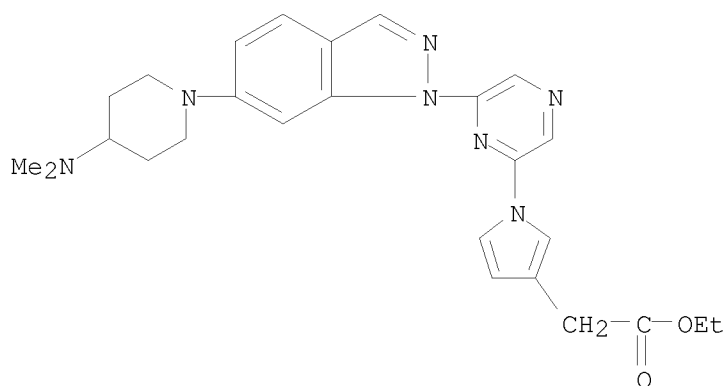


10581412



RN 940882-55-3 CAPLUS

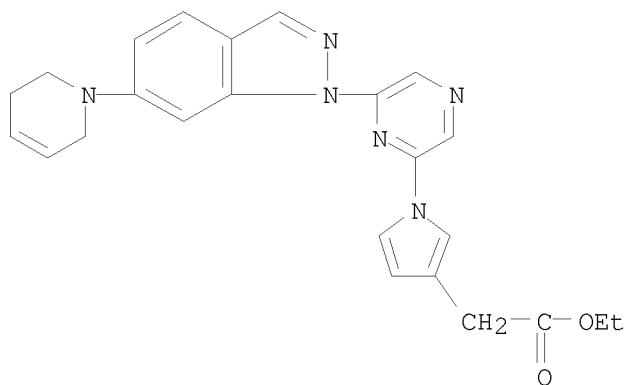
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(dimethylamino)-1-piperidiny]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-57-5 CAPLUS

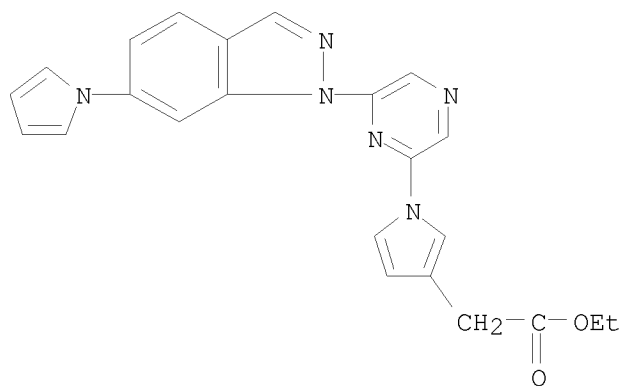
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(3,6-dihydro-1(2H)-pyridinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 940882-59-7 CAPLUS

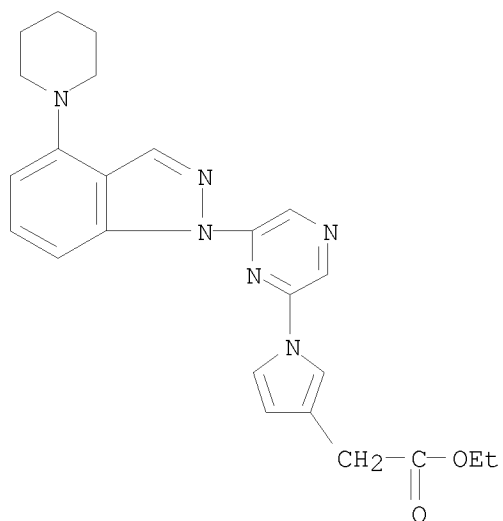
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1H-pyrrol-1-yl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



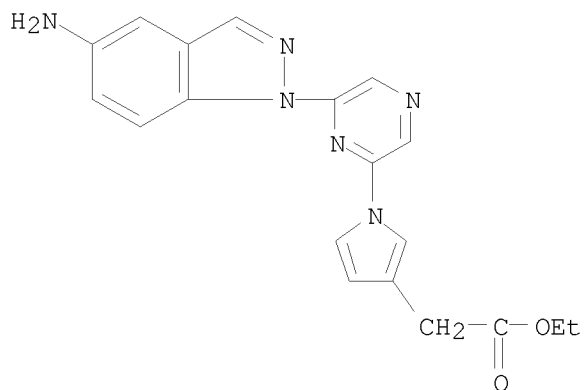
RN 940882-61-1 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[4-(1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412

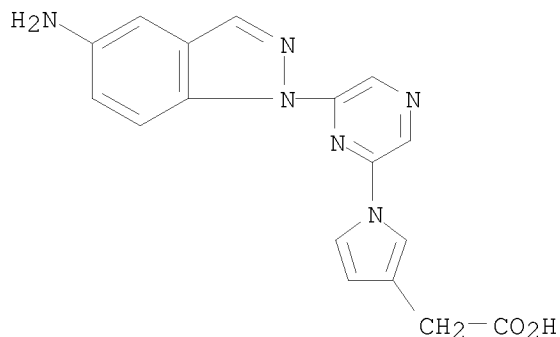


RN 940882-63-3 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-(5-amino-1H-indazol-1-yl)-2-pyrazinyl]-,  
ethyl ester (CA INDEX NAME)



RN 940882-64-4 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-(5-amino-1H-indazol-1-yl)-2-pyrazinyl]-  
(CA INDEX NAME)

10581412

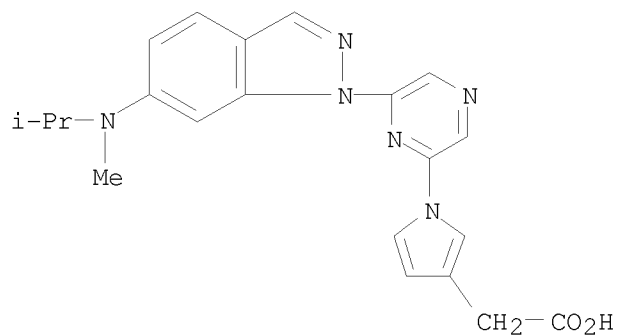


IT 940881-89-0P 940881-95-8P 940882-00-8P  
940882-09-7P 940882-13-3P 940882-17-7P  
940882-21-3P 940882-24-6P 940882-26-8P  
940882-28-0P 940882-30-4P 940882-32-6P  
940882-40-6P 940882-42-8P 940882-44-0P  
940882-46-2P 940882-48-4P 940882-50-8P  
940882-54-2P 940882-58-6P 940882-60-0P  
940882-62-2P 940882-65-5P 940882-67-7P  
940882-68-8P 940882-69-9P 940882-71-3P  
940882-72-4P 940882-73-5P 940882-74-6P  
940882-75-7P 940882-76-8P 940882-79-1P  
940882-80-4P 940882-81-5P 940882-82-6P  
940882-83-7P 940882-84-8P 940882-85-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(antitumor agents containing pyrazine derivs.)

RN 940881-89-0 CAPLUS

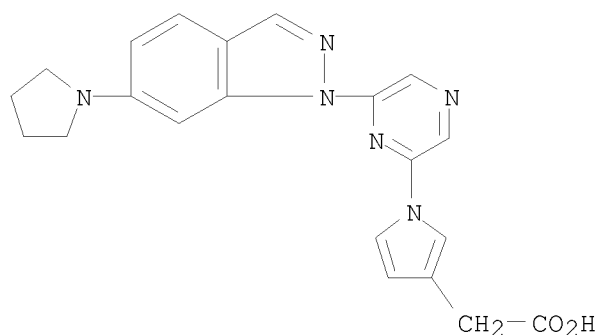
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[methyl(1-methylethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



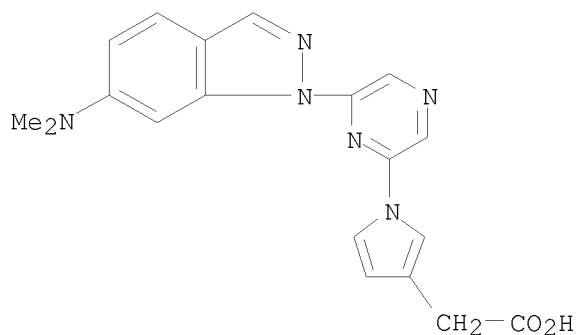
RN 940881-95-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1-pyrrolidinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

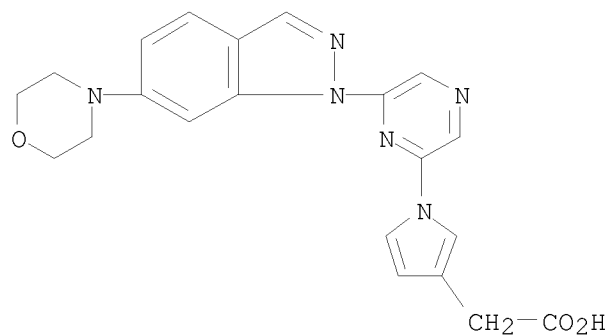
10581412



RN 940882-00-8 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(dimethylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

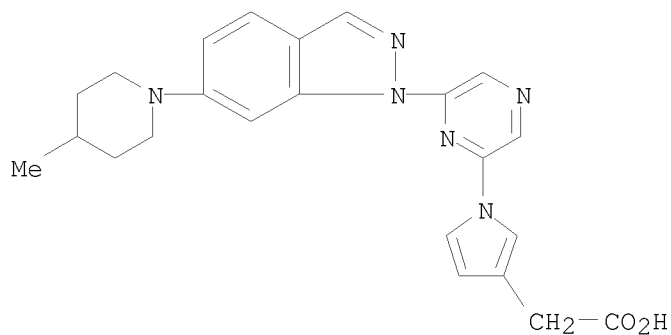


RN 940882-09-7 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-morpholinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



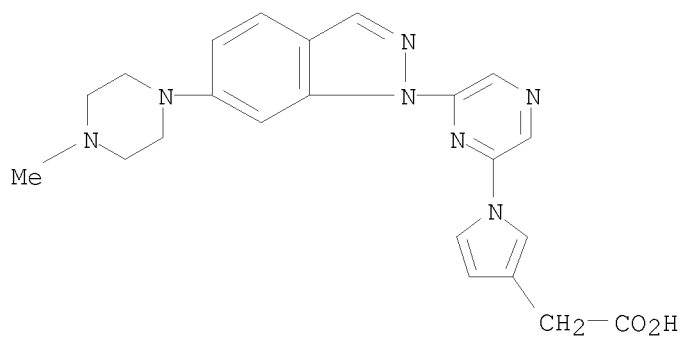
RN 940882-13-3 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methyl-1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



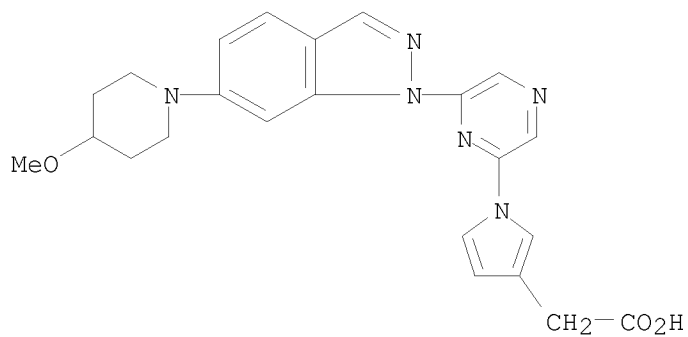
RN 940882-17-7 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methyl-1-piperazinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-21-3 CAPLUS

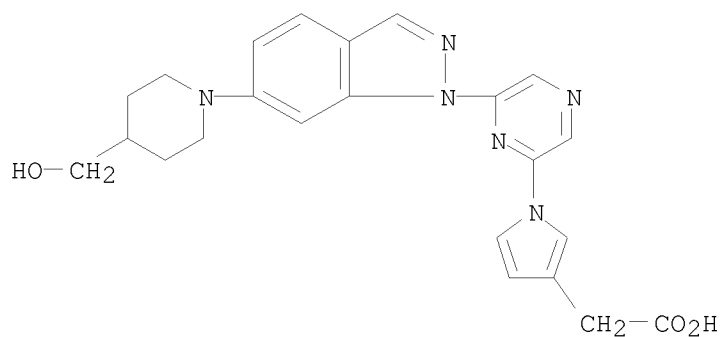
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methoxy-1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-24-6 CAPLUS

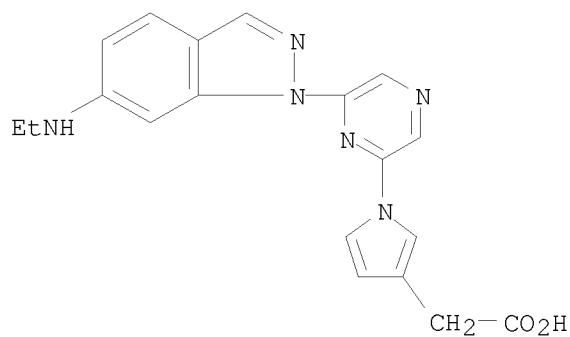
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(hydroxymethyl)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



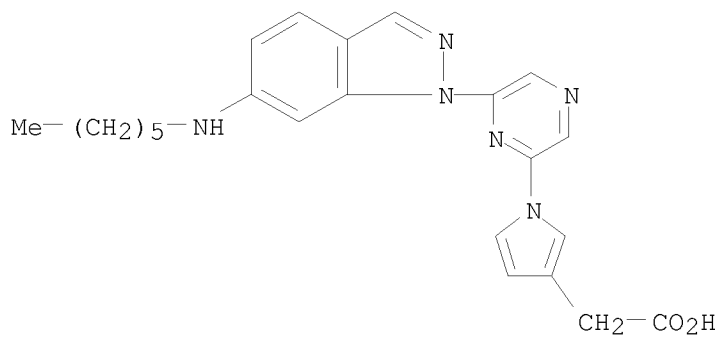
RN 940882-26-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(ethylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-28-0 CAPLUS

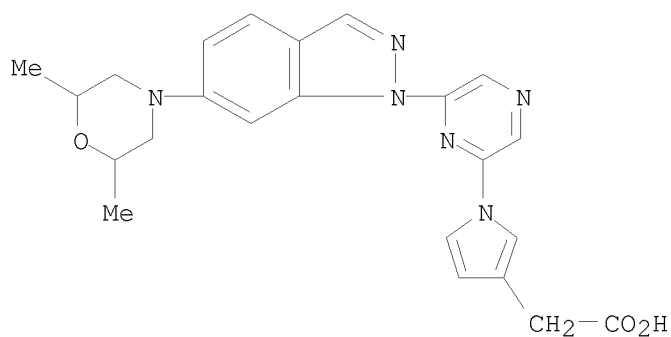
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(hexylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-30-4 CAPLUS

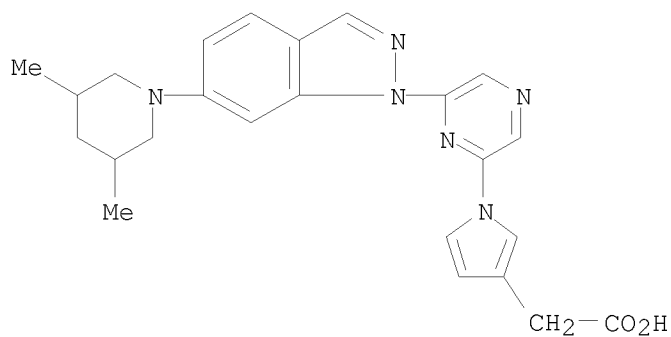
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(2,6-dimethyl-4-morpholinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



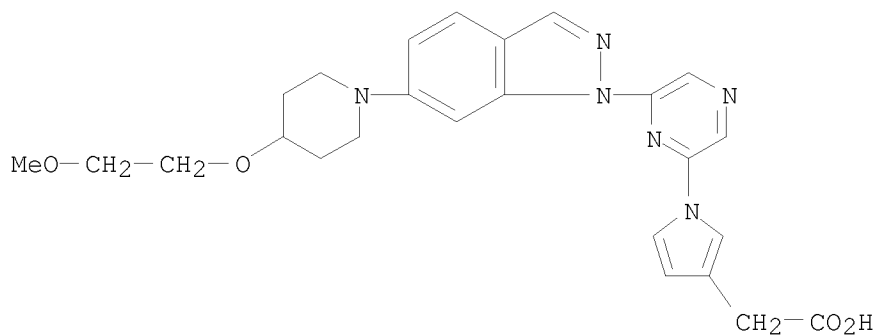
RN 940882-32-6 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(3,5-dimethyl-1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-40-6 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(2-methoxyethoxy)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

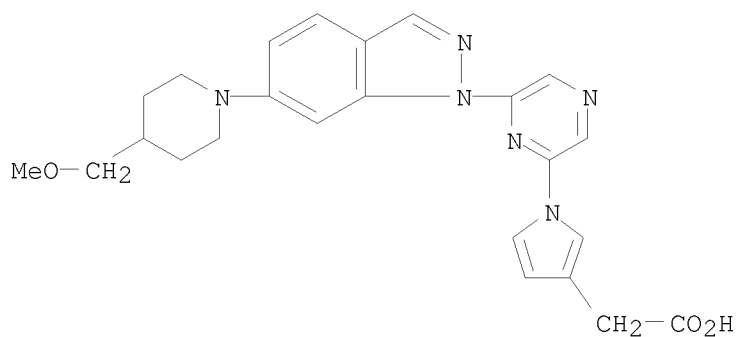


RN 940882-42-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(methoxymethyl)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

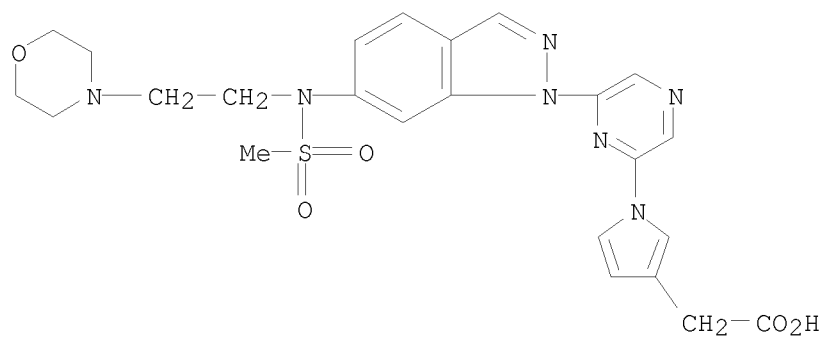


10581412



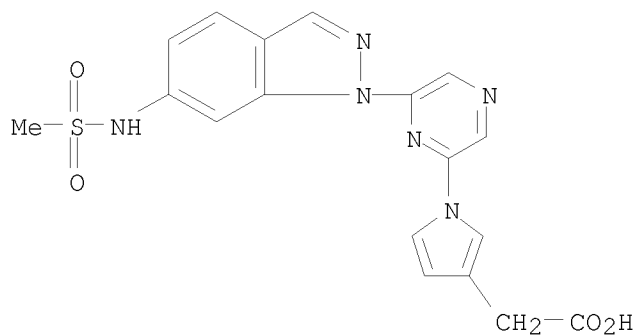
RN 940882-44-0 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(methanesulfonyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-46-2 CAPLUS

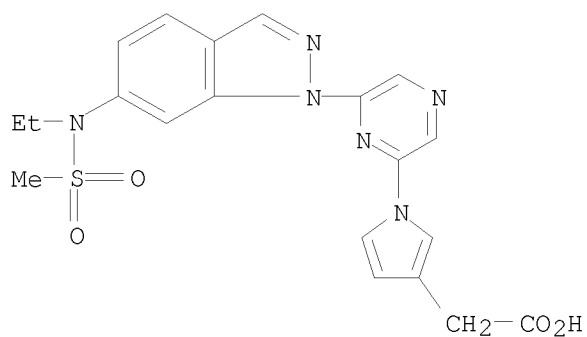
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(methanesulfonyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-48-4 CAPLUS

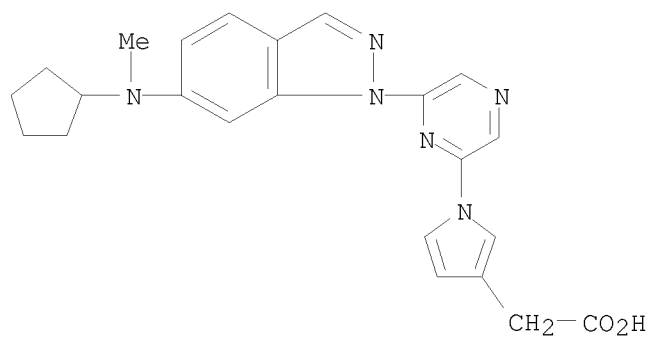
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(ethanesulfonyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



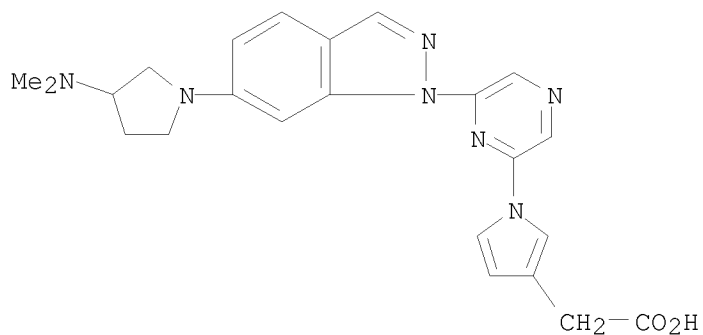
RN 940882-50-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cyclopentylmethylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-54-2 CAPLUS

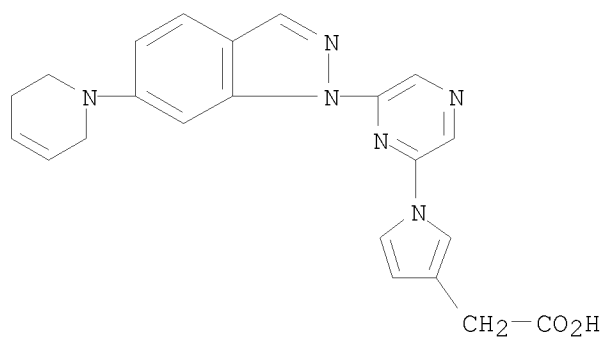
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[3-(dimethylamino)-1-pyrrolidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-58-6 CAPLUS

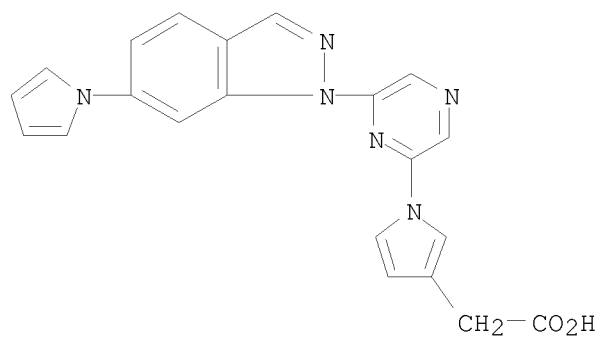
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(3,6-dihydro-1(2H)-pyridinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



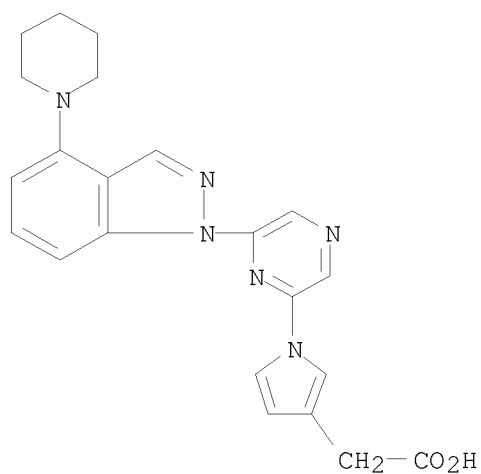
RN 940882-60-0 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1H-pyrrol-1-yl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-62-2 CAPLUS

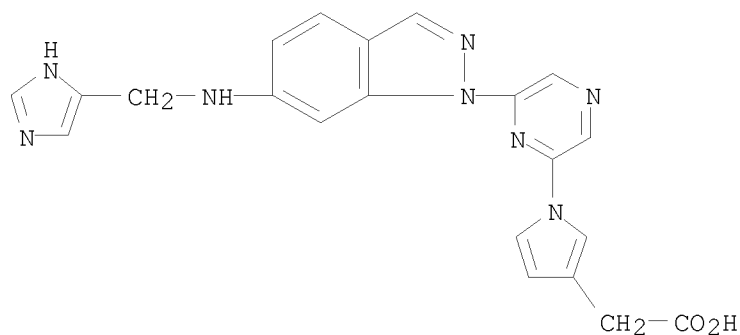
CN 1H-Pyrrole-3-acetic acid, 1-[6-[4-(1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



10581412

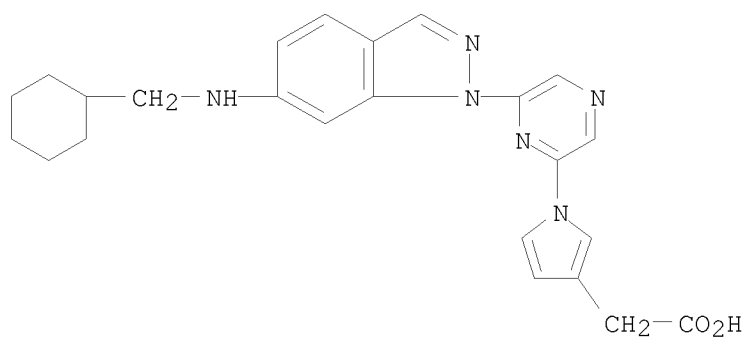
RN 940882-65-5 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(1H-imidazol-5-ylmethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



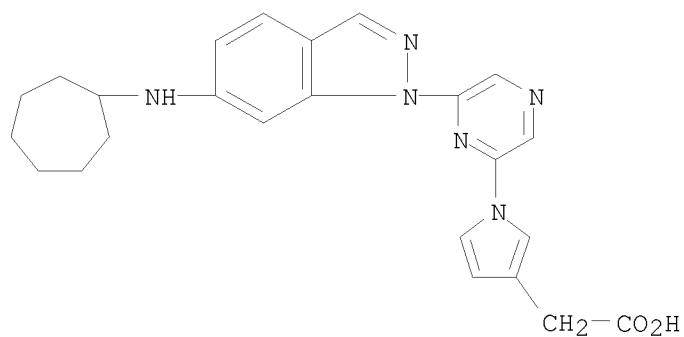
RN 940882-67-7 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(cyclohexylmethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-68-8 CAPLUS

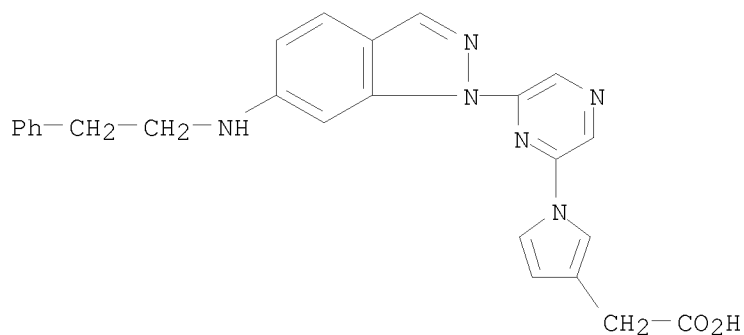
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cycloheptylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



10581412

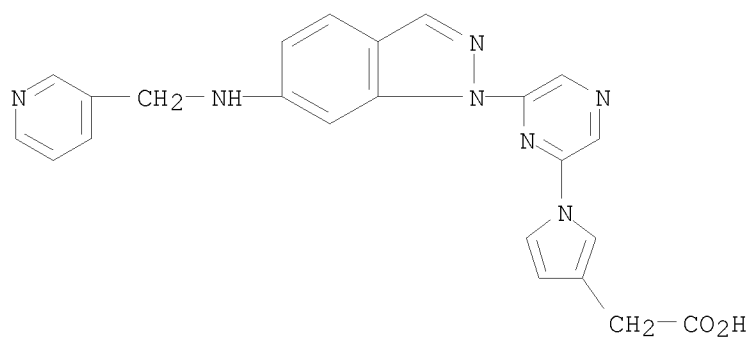
RN 940882-69-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(2-phenylethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



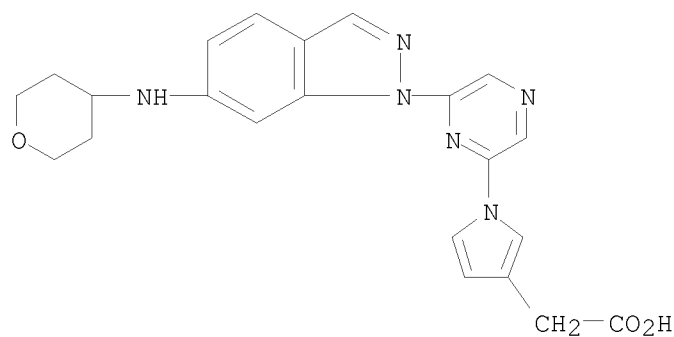
RN 940882-71-3 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(3-pyridinylmethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-72-4 CAPLUS

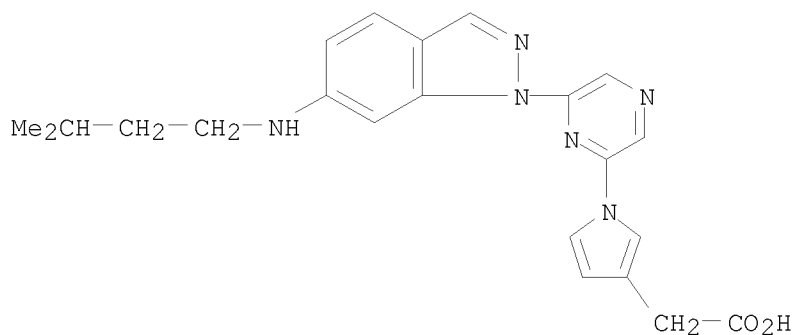
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(tetrahydro-2H-pyran-4-yl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



10581412

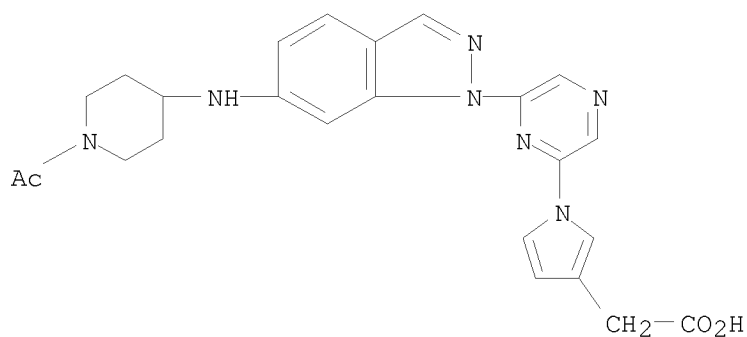
RN 940882-73-5 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(3-methylbutyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



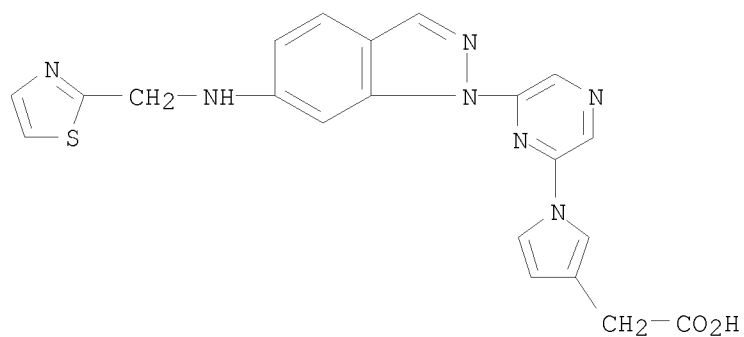
RN 940882-74-6 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(1-acetyl-4-piperidiny)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-75-7 CAPLUS

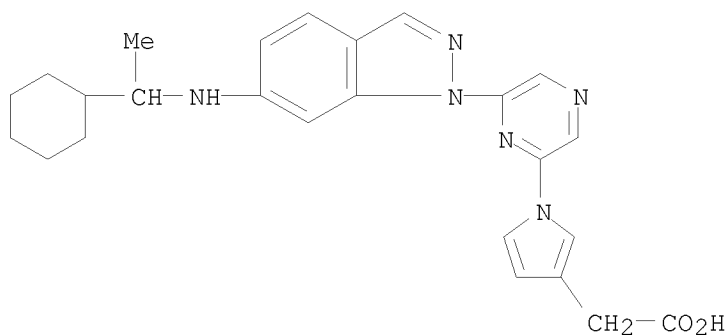
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(2-thiazolylmethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



10581412

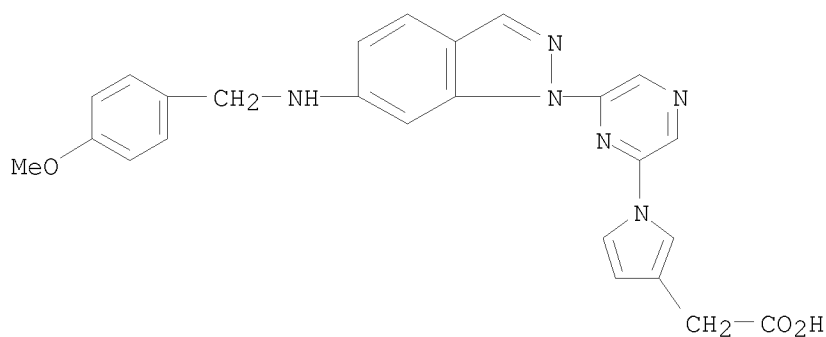
RN 940882-76-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(1-cyclohexylethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-79-1 CAPLUS

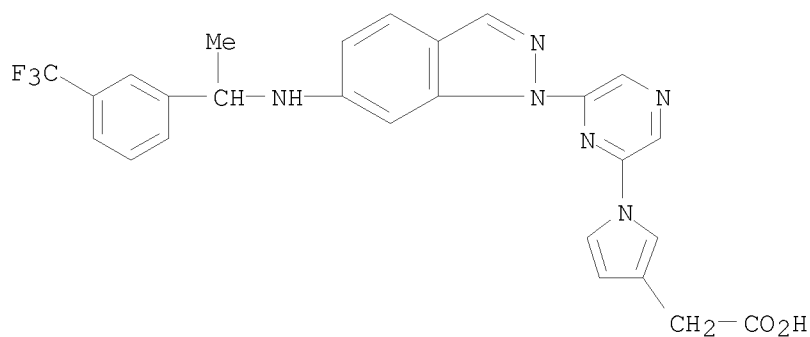
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[4-methoxyphenyl)methyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-80-4 CAPLUS

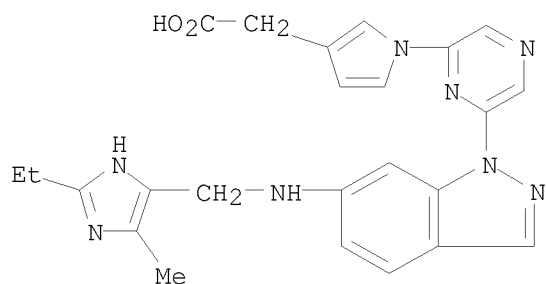
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[1-[3-(trifluoromethyl)phenyl]ethyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



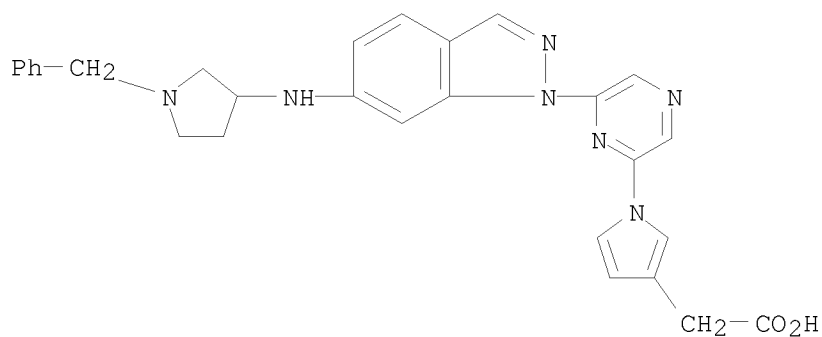
RN 940882-81-5 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(2-ethyl-4-methyl-1H-imidazol-5-yl)methyl]amino]-1H-indazol-1-yl]-2-pyrazinyl- (CA INDEX NAME)



RN 940882-82-6 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[1-(phenylmethyl)-3-pyrrolidinyl]amino]-1H-indazol-1-yl]-2-pyrazinyl- (CA INDEX NAME)

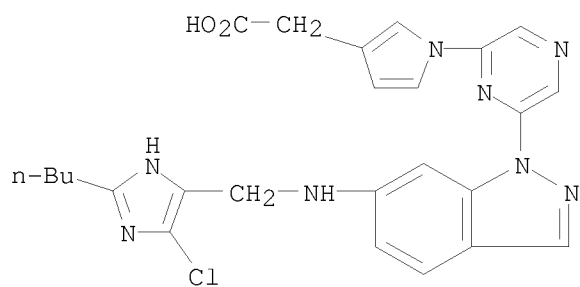


RN 940882-83-7 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[1-(phenylmethyl)-3-pyrrolidinyl]amino]-1H-indazol-1-yl]-2-pyrazinyl- (CA INDEX NAME)

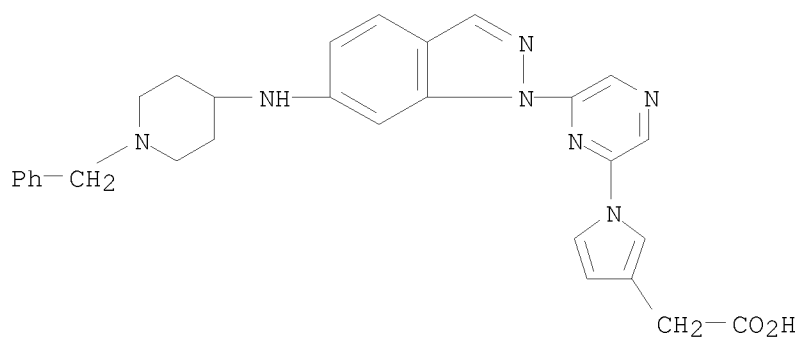


10581412



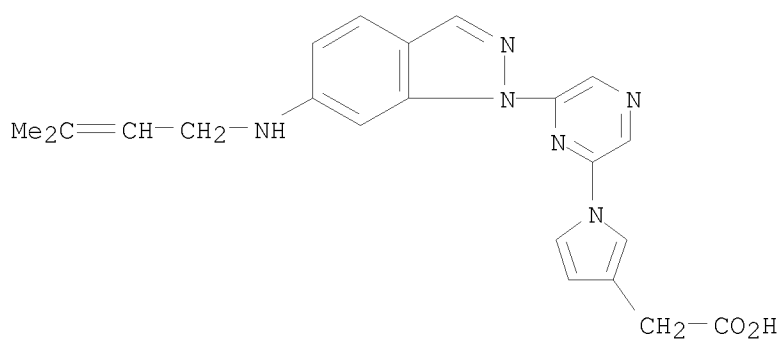
RN 940882-84-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[1-(phenylmethyl)-4-piperidinyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

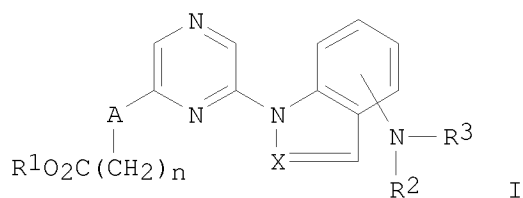


RN 940882-85-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(3-methyl-2-buten-1-yl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



GI



AB The invention provides an antitumor agent containing a pyrazine derivative represented by a general formula I ( $n = 0-2$ ;  $R^1 = H, C1-4$  alkyl;  $A =$  indolediyl, pyrrolediyl, furandiyl, thiophenediyl, etc.;  $R^2, R^3 = H, C1-8$  alkyl,  $C3-8$  (un)substituted branched alkyl,  $C3-8$  (un)substituted cyclic alkyl, etc., wherein  $R^2$  and  $R^3$  can form a (un)substituted 5- or 6-membered heterocyclic group), or its pharmaceutically acceptable salt as an active component. For example, 1-[6-[6-(cyclopentylamino)-1H-indazol-1-yl]-2-pyrazinyl]-1H-Pyrrole-3-acetic acid was prepared, and examined for its antitumor effect in mouse and human leukemia, colon cancer, lung cancer, breast cancer, and prostate cancer cells.

L4 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1011384 CAPLUS

DOCUMENT NUMBER: 149:288938

TITLE: Preparation of new substituted arylsulphonylglycines as inhibitors of the interaction between glycogen phosphorylase and GL subunit of glycogen-associated protein phosphatase 1 and their pharmaceutical compositions useful for treating diabetes

INVENTOR(S): Wagner, Holger; Langkopf, Elke; Streicher, Ruediger; Eckhardt, Matthias; Schuler-Metz, Annette; Pautsch, Alexander; Schoelch, Corinna

PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany

SOURCE: PCT Int. Appl., 397pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

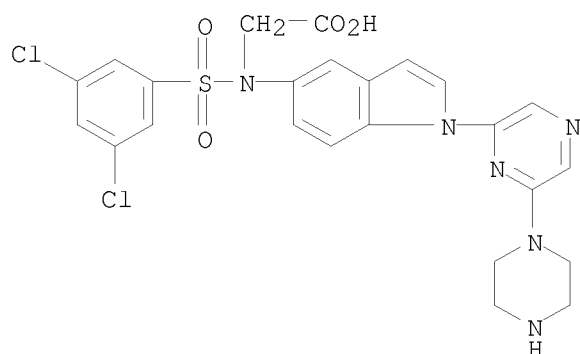
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

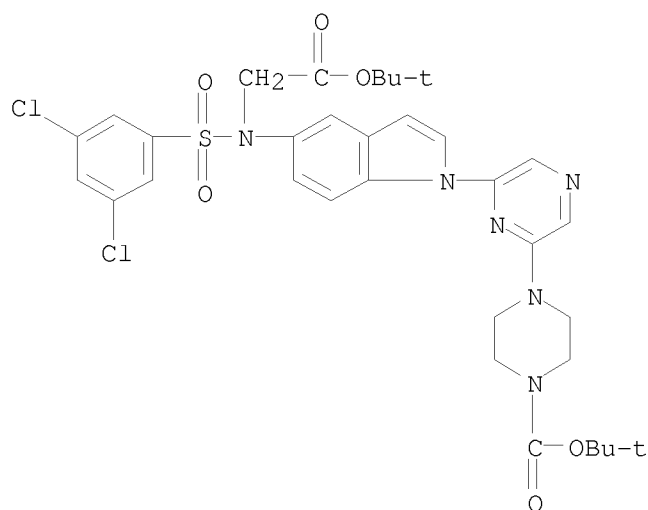
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008099000	A2	20080821	WO 2008-EP51824	20080215
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
DE 102007007751	A1	20080821	DE 2007-102007007751	20070216
PRIORITY APPLN. INFO.:			DE 2007-102007007751A	20070216
OTHER SOURCE(S):	MARPAT 149:288938			
IT 1049029-33-5P				
RL:	PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)			
	(drug candidate; preparation of substituted arylsulfonylglycines as inhibitors of interaction between glycogen phosphorylase and GL subunit of glycogen-associated protein phosphatase 1 for treating diabetes mellitus)			
RN 1049029-33-5	CAPLUS			
CN	Glycine, N-[(3,5-dichlorophenyl)sulfonyl]-N-[1-[6-(1-piperazinyl)-2-pyrazinyl]-1H-indol-5-yl]-, hydrochloride (1:1) (CA INDEX NAME)			

10581412



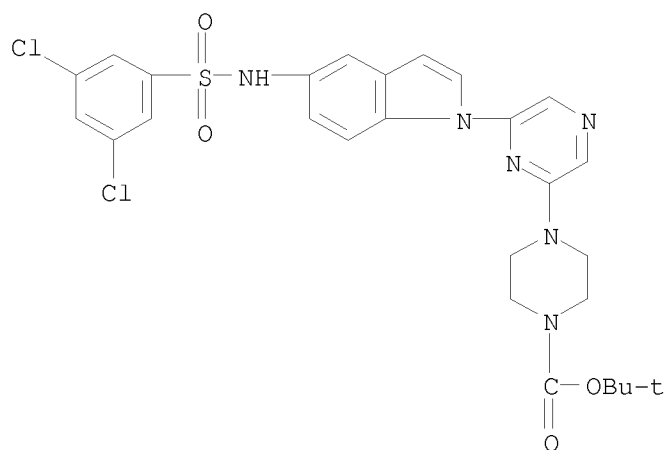
● HCl

IT 1049020-88-3P 1049021-59-1P 1049022-04-9P  
1049025-73-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(intermediate; preparation of substituted arylsulfonylglycines as inhibitors  
of interaction between glycogen phosphorylase and GL subunit of  
glycogen-associated protein phosphatase 1 for treating diabetes mellitus)  
RN 1049020-88-3 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[6-[5-[[[(3,5-dichlorophenyl)sulfonyl][2-  
(1,1-dimethylethoxy)-2-oxoethyl]amino]-1H-indol-1-yl]-2-pyrazinyl]-,  
1,1-dimethylethyl ester (CA INDEX NAME)

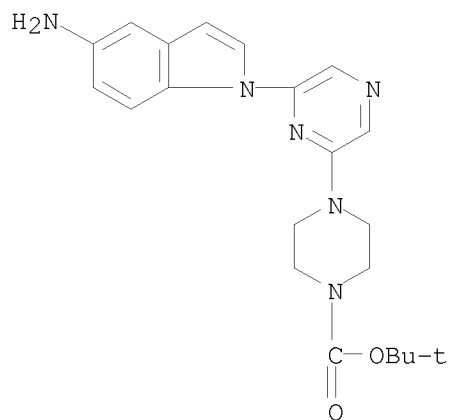


RN 1049021-59-1 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[6-[5-[[[(3,5-dichlorophenyl)sulfonyl]amino]-  
1H-indol-1-yl]-2-pyrazinyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

10581412

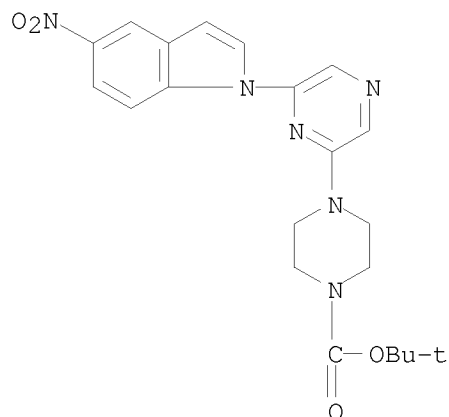


RN 1049022-04-9 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[6-(5-amino-1H-indol-1-yl)-2-pyrazinyl]-,  
1,1-dimethylethyl ester (CA INDEX NAME)

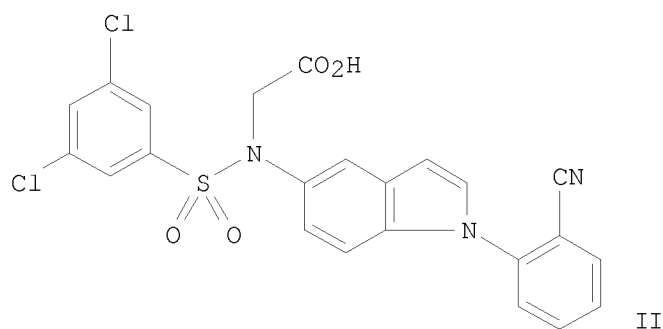
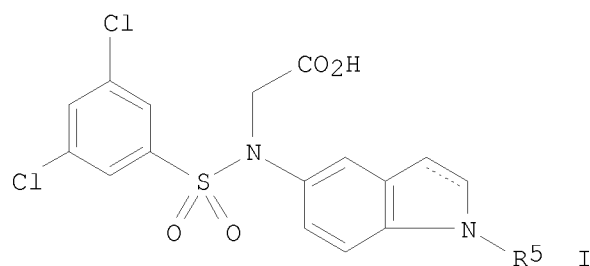


RN 1049025-73-1 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[6-(5-nitro-1H-indol-1-yl)-2-pyrazinyl]-,  
1,1-dimethylethyl ester (CA INDEX NAME)

10581412



GI



AB The invention is related to the preparation of substituted arylsulfonyl glycines I [R5 = (un)substituted Ph, pyridazin-3-yl, pyrimidin-2-yl, pyrimidin-4-yl, pyrimidin-5-yl, pyrazin-2-yl, pyridin-2-yl, pyridin-3-yl], tautomers, enantiomers, diastereomers, and their mixts. and their salts, and their analogs which have the ability to suppress the interaction of glycogen phosphorylase with the GL subunit of glycogen-associated protein phosphatase 1 (PP1), and to their pharmaceutical compns. useful for treating diabetes mellitus. Thus, alkylation of 3,5-dichloro-N-(1H-indol-5-yl)benzenesulfonamide with tert-Bu 2-bromoacetate in DMF in the presence of K2CO3, N-arylation of indole with

2-iodobenzonitrile in toluene in the presence of K<sub>3</sub>P<sub>04</sub> and CuI and cleavage of the tert-Bu group gave phenylsulfinylglycine II. In a binding test, arylsulfonylglycines I inhibited the interaction of human liver glycogen phosphorylase with protein PP1R3 (GL subunit of glycogen-associated PP1) with IC<sub>50</sub> values in the range of 9 nM to 15  $\mu$ M.

L4 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1004593 CAPLUS

DOCUMENT NUMBER: 149:288936

TITLE: Preparation of new substituted arylsulphonylglycines as inhibitors of the interaction between glycogen phosphorylase and GL subunit of glycogen-associated protein phosphatase 1 and their pharmaceutical compositions useful for treating diabetes

INVENTOR(S): Wagner, Holger; Langkopf, Elke; Eckhardt, Matthias; Streicher, Ruediger; Schoelch, Corinna; Schuler-Metz, Annette; Pautsch, Alexander

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G., Germany

SOURCE: Ger. Offen., 276pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102007007751	A1	20080821	DE 2007-102007007751	20070216
WO 2008099000	A2	20080821	WO 2008-EP51824	20080215
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: DE 2007-102007007751A 20070216

IT 1049029-33-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

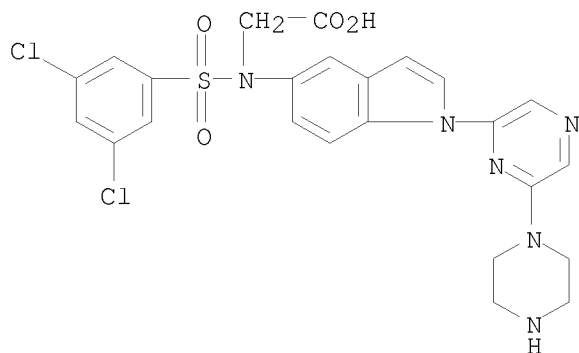
(drug candidate; preparation of substituted arylsulfonylglycines as inhibitors of interaction between glycogen phosphorylase and GL subunit of glycogen-associated protein phosphatase 1 for treating diabetes mellitus)

RN 1049029-33-5 CAPLUS

CN Glycine, N-[(3,5-dichlorophenyl)sulfonyl]-N-[1-[6-(1-piperazinyl)-2-pyrazinyl]-1H-indol-5-yl]-, hydrochloride (1:1) (CA INDEX NAME)

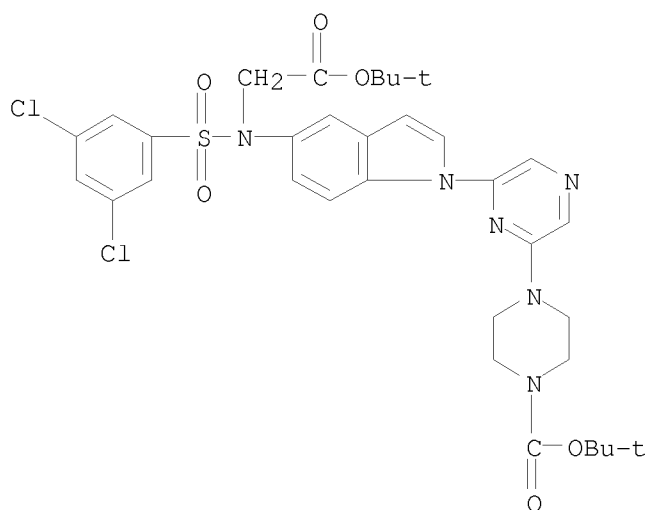


10581412



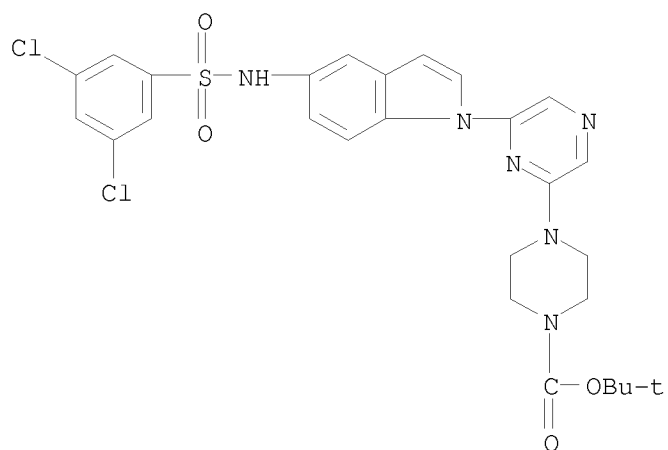
● HCl

IT 1049020-88-3P 1049021-59-1P 1049022-04-9P  
 1049025-73-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (intermediate; preparation of substituted arylsulfonylglycines as inhibitors  
 of interaction between glycogen phosphorylase and GL subunit of  
 glycogen-associated protein phosphatase 1 for treating diabetes mellitus)  
 RN 1049020-88-3 CAPLUS  
 CN 1-Piperazinecarboxylic acid, 4-[6-[5-[[[(3,5-dichlorophenyl)sulfonyl][2-  
 (1,1-dimethylethoxy)-2-oxoethyl]amino]-1H-indol-1-yl]-2-pyrazinyl]-,  
 1,1-dimethylethyl ester (CA INDEX NAME)

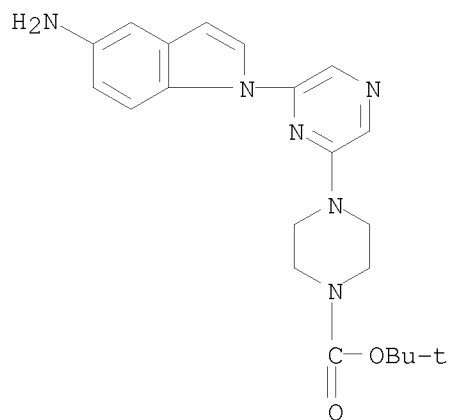


RN 1049021-59-1 CAPLUS  
 CN 1-Piperazinecarboxylic acid, 4-[6-[5-[[[(3,5-dichlorophenyl)sulfonyl]amino]-  
 1H-indol-1-yl]-2-pyrazinyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

10581412

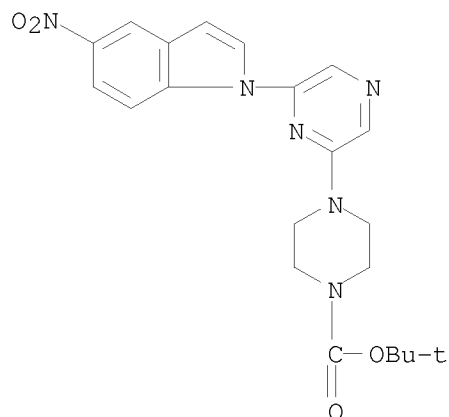


RN 1049022-04-9 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[6-(5-amino-1H-indol-1-yl)-2-pyrazinyl]-,  
1,1-dimethylethyl ester (CA INDEX NAME)

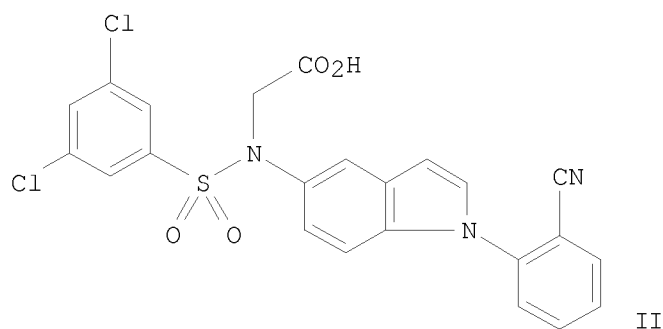
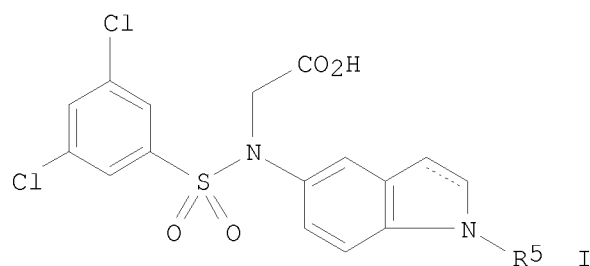


RN 1049025-73-1 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[6-(5-nitro-1H-indol-1-yl)-2-pyrazinyl]-,  
1,1-dimethylethyl ester (CA INDEX NAME)

10581412



GI



AB The invention is related to the preparation of substituted arylsulfonylglycines I [R5 = (un)substituted Ph, pyridazin-3-yl, pyrimidin-2-yl, pyrimidin-4-yl, pyrimidin-5-yl, pyrazin-2-yl, pyridin-2-yl, pyridin-3-yl], tautomers, enantiomers, diastereomers, and their mixts. and their salts, and their analogs which have the ability to suppress the interaction of glycogen phosphorylase with the GL subunit of glycogen-associated protein phosphatase 1 (PP1), and to their pharmaceutical compns. useful for treating diabetes mellitus. Thus, alkylation of 3,5-dichloro-N-(1H-indol-5-yl)benzenesulfonamide with tert-Bu 2-bromoacetate in DMF in the presence of K2CO3, N-arylation of indole with

2-iodobenzonitrile in toluene in the presence of K<sub>3</sub>P0<sub>4</sub> and CuI and cleavage of the tert-Bu group gave phenylsulfinylglycine II. In a binding test, arylsulfonylglycines I inhibited the interaction of human liver glycogen phosphorylase with protein PP1R3 (GL subunit of glycogen-associated PP1) with IC<sub>50</sub> values in the range of 9 nM to 15  $\mu$ M.

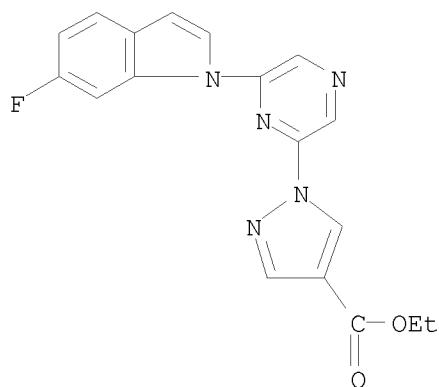
10581412

L4 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:939664 CAPLUS  
DOCUMENT NUMBER: 149:239318  
TITLE: Pyrazine derivs. as antitumor agents  
INVENTOR(S): Sekitani, Yumiko; Yamada, Masaki; Nishimura, Kazumi  
PATENT ASSIGNEE(S): Toray Industries, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 19pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

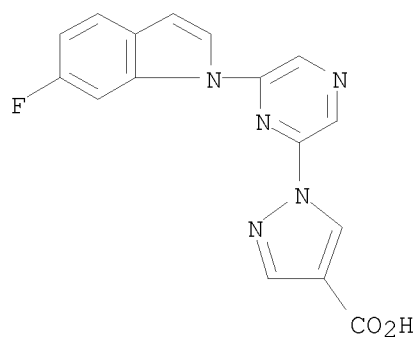
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008179567	A	20080807	JP 2007-14604	20070125

PRIORITY APPLN. INFO.: JP 2007-14604 20070125  
OTHER SOURCE(S): MARPAT 149:239318  
IT 1044598-65-3P 1044598-67-5P,  
1-[6-(6-Fluoro-1H-indol-1-yl)pyrazin-2-yl]-1H-pyrazole-4-carboxylic acid  
1044598-68-6P 1044598-70-0P 1044598-71-1P,  
Ethyl 2-[1-[6-(3-amino-6-chloro-1H-indazolyl)pyrazin-2-yl]pyrrol-3-yl]acetate 1044598-72-2P 1044598-73-3P, Ethyl  
2-[1-[6-(6-cyano-1H-indazolyl)pyrazin-2-yl]pyrrol-3-yl]acetate  
1044598-74-4P 1044598-75-5P, Ethyl  
2-[1-[6-(6-trifluoromethyl-1H-indazolyl)pyrazin-2-yl]pyrrol-3-yl]acetate  
1044598-76-6P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(pyrazine derivs. as antitumor agents)  
RN 1044598-65-3 CAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-[6-(6-fluoro-1H-indol-1-yl)-2-pyrazinyl]-  
, ethyl ester (CA INDEX NAME)



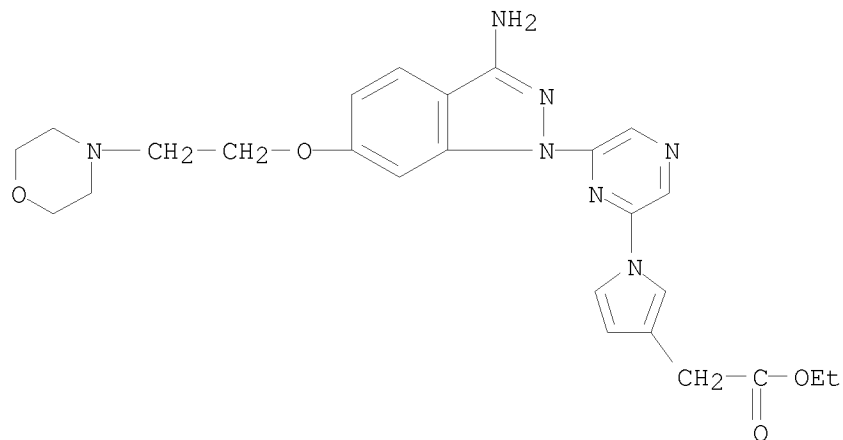
RN 1044598-67-5 CAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 1-[6-(6-fluoro-1H-indol-1-yl)-2-pyrazinyl]-  
(CA INDEX NAME)

10581412



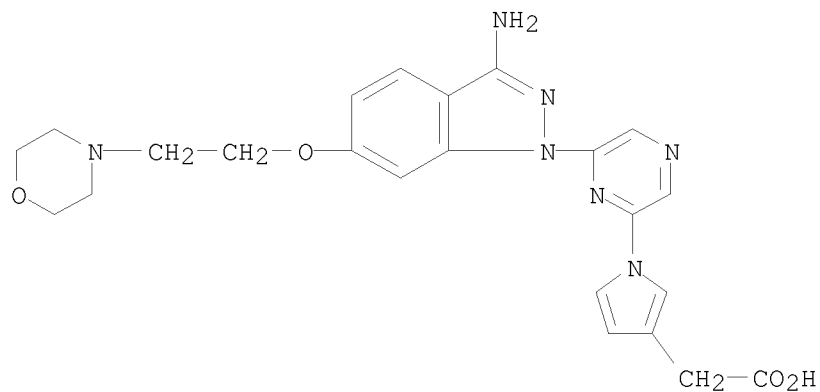
RN 1044598-68-6 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-amino-6-[2-(4-morpholinyl)ethoxy]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 1044598-70-0 CAPLUS

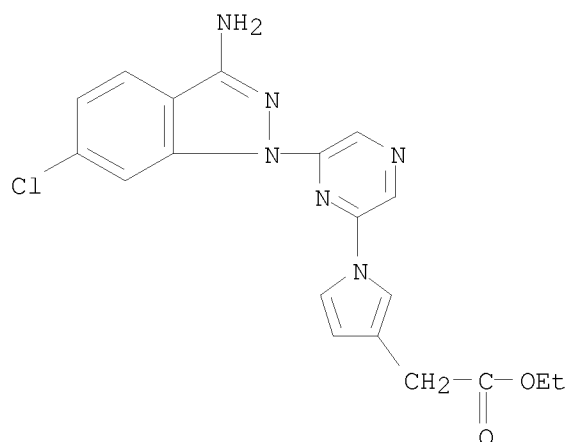
CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-amino-6-[2-(4-morpholinyl)ethoxy]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



10581412

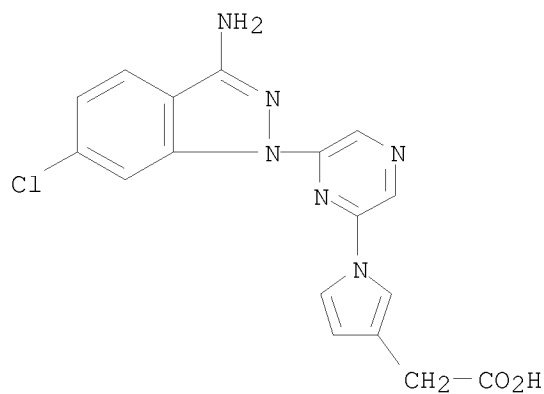
RN 1044598-71-1 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(3-amino-6-chloro-1H-indazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 1044598-72-2 CAPLUS

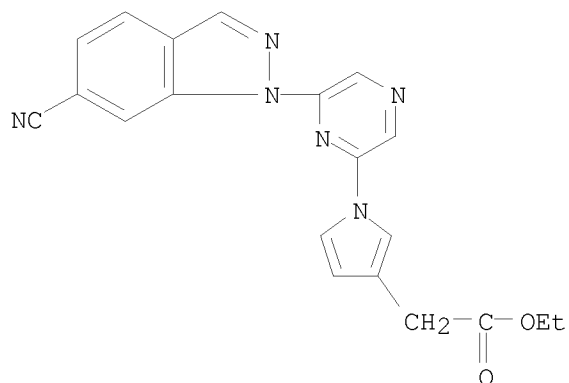
CN 1H-Pyrrole-3-acetic acid, 1-[6-(3-amino-6-chloro-1H-indazol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)



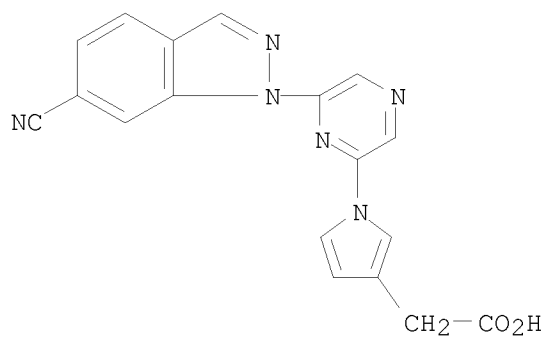
RN 1044598-73-3 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(6-cyano-1H-indazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

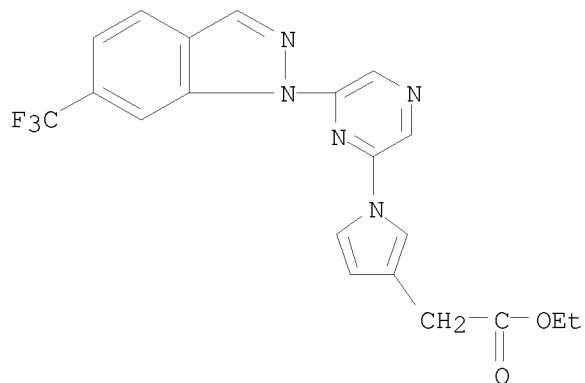
10581412



RN 1044598-74-4 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-(6-cyano-1H-indazol-1-yl)-2-pyrazinyl]-  
(CA INDEX NAME)



RN 1044598-75-5 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(trifluoromethyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

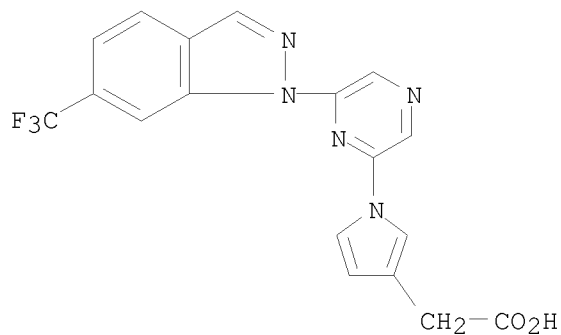




10581412

RN 1044598-76-6 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(trifluoromethyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

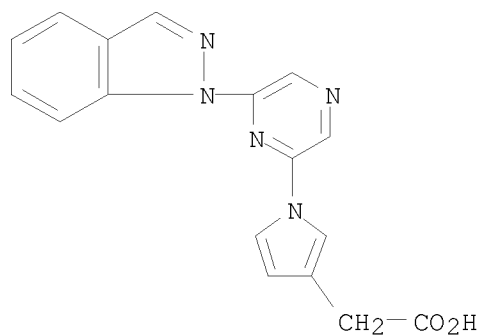


IT 875900-37-1 875900-43-9 1044598-77-7

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(pyrazine derivs. as antitumor agents)

RN 875900-37-1 CAPLUS

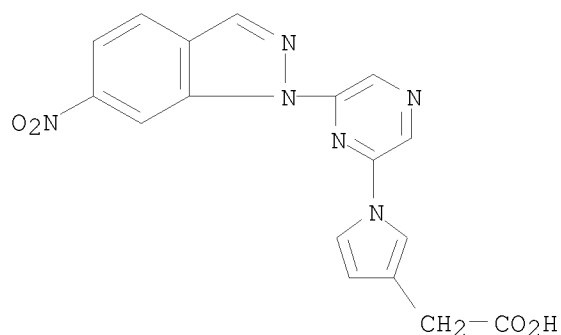
CN 1H-Pyrrole-3-acetic acid, 1-[6-(1H-indazol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)



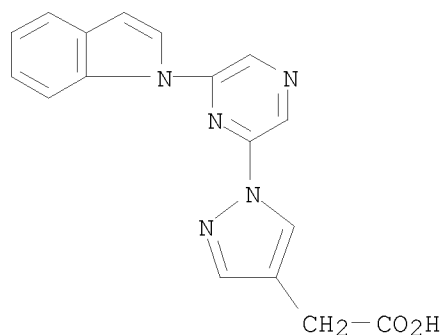
RN 875900-43-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(6-nitro-1H-indazol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)

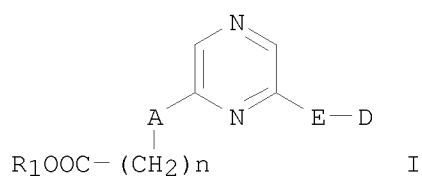
10581412



RN 1044598-77-7 CAPLUS  
CN 1H-Pyrazole-4-acetic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)



GI



AB The pyrazine derivs. (I; n = 0-2; R<sub>1</sub> = H, C1-3 alkyl; A = heterocyclic; E = direct bonding or -NH-; E = -NH-; D = (substituted) Ph at thiazolyl, aromatic) and their pharmaceutically acceptable salts are claimed as antitumor agents for treatment of colon cancer, lung cancer, prostate cancer, hepatoma, mammary cancer, and leukemia. I were prepared, and their antitumor effects were tested.

10581412

L4 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:447377 CAPLUS

DOCUMENT NUMBER: 148:426887

TITLE: Preparation of indazolyl derivatives useful as potassium channel modulating agents

INVENTOR(S): Eriksen, Birgitte L.; Soerensen, Ulrik Svane; Hougaard, Charlotte; Teuber, Lene; Peters, Dan; Christophersen, Palle; Johansen, Tina Holm

PATENT ASSIGNEE(S): Neurosearch A/S, Den.

SOURCE: PCT Int. Appl., 38pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
WO 2008040753	A1	20080410	WO 2007-EP60493	20071003
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DK 2006-1280 A 20061003  
US 2006-827940P P 20061003

OTHER SOURCE(S): MARPAT 148:426887

IT 1018474-72-0P

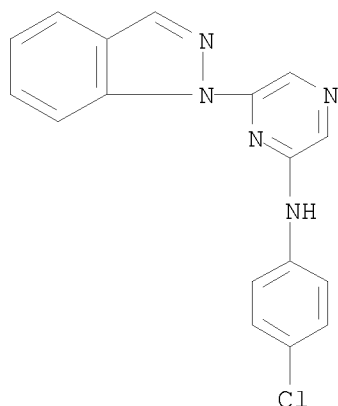
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel indazolyl derivs. as potassium channel modulators useful in treatment and prevention of diseases - associated with activity of potassium channels)

RN 1018474-72-0 CAPLUS

CN 2-Pyrazinamine, N-(4-chlorophenyl)-6-(1H-indazol-1-yl)- (CA INDEX NAME)

10581412



GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds. I or II [n = 0-3; X = O, S or NR1 (wherein R1 = H, alkyl, cycloalkyl or cycloalkyl-alkyl); Y = alkyl, cycloalkyl, (un)substituted Ph, etc.; A1 = N or CR2; A2 = N or CH, provided, however, that only one of A1 and A2 represents N; R1-R4 = H, alkyl, aminoalkyl, etc.; or R1 and R2, together with the heteroarom. ring to which they are attached, form a benzo-fused ring; and R3 and R4 = H, alkyl, aminoalkyl, etc.], useful as potassium channel modulating agents, were prepared E.g., a 2-step synthesis of III (14%) and IV (5%), starting from 2,4-dichloro-6-methylpyrimidine and 4-chloroaniline, was given. The SC100 value determined for III was 0.08  $\mu$ M which is an indication of its strong SK3 activating properties. Moreover the invention is directed to pharmaceutical compns. useful for the treatment or alleviation of diseases or disorders associated with the activity of potassium channels, in particular respiratory diseases, epilepsy, convulsions, seizures, absence seizures, vascular spasms, coronary artery spasms, renal disorders, polycystic kidney disease, bladder spasms, urinary incontinence, bladder outflow obstruction, erectile dysfunction, gastrointestinal dysfunction, secretory diarrhea, ischemia, cerebral ischemia, ischemic heart, disease, angina pectoris, coronary heart disease, autism, ataxia, traumatic brain injury, Parkinson's disease, bipolar disorder, psychosis, schizophrenia, anxiety, depression, mania, mood disorders, dementia, memory and attention deficits, Alzheimer's disease, amyotrophic lateral sclerosis (ALS), dysmenorrhea, narcolepsy, Reynaud's disease, intermittent claudication, Sjorgren's syndrome, arrhythmia, hypertension, myotonic muscle dystrophia, spasticity, xerostomia, diabetes type II, hyperinsulinemia, premature labour, baldness, cancer, irritable bowel syndrome, immune suppression, migraine and pain.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10581412

L4 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:640251 CAPLUS

DOCUMENT NUMBER: 147:52932

TITLE: Preparation of novel pyrazines and their use for treatment of nephritis

INVENTOR(S): Fuchi, Nobuhiro; Iura, Yosuke; Kaneko, Hiroaki; Yamada, Masaki; Sekitani, Yumiko

PATENT ASSIGNEE(S): Toray Industries, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 69pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
JP 2007145786	A	20070614	JP 2005-345710	20051130
PRIORITY APPLN. INFO.:			JP 2005-345710	20051130

OTHER SOURCE(S): MARPAT 147:52932

IT 940881-86-7P 940881-89-0P 940881-92-5P  
940881-95-8P 940881-98-1P 940882-00-8P  
940882-03-1P 940882-05-3P 940882-07-5P  
940882-09-7P 940882-11-1P 940882-13-3P  
940882-15-5P 940882-17-7P 940882-19-9P  
940882-21-3P 940882-23-5P 940882-24-6P  
940882-25-7P 940882-26-8P 940882-27-9P  
940882-28-0P 940882-29-1P 940882-30-4P  
940882-31-5P 940882-32-6P 940882-33-7P  
940882-34-8P 940882-35-9P 940882-36-0P  
940882-37-1P 940882-38-2P 940882-39-3P  
940882-40-6P 940882-41-7P 940882-42-8P  
940882-43-9P 940882-44-0P 940882-45-1P  
940882-46-2P 940882-47-3P 940882-48-4P  
940882-49-5P 940882-50-8P 940882-51-9P  
940882-52-0P 940882-53-1P 940882-54-2P  
940882-55-3P 940882-56-4P 940882-57-5P  
940882-58-6P 940882-59-7P 940882-60-0P  
940882-61-1P 940882-62-2P 940882-63-3P  
940882-64-4P 940882-65-5P 940882-66-6P  
940882-67-7P 940882-68-8P 940882-69-9P  
940882-70-2P 940882-71-3P 940882-72-4P  
940882-73-5P 940882-74-6P 940882-75-7P  
940882-76-8P 940882-77-9P 940882-78-0P  
940882-79-1P 940882-80-4P 940882-81-5P  
940882-82-6P 940882-83-7P 940882-84-8P  
940882-85-9P

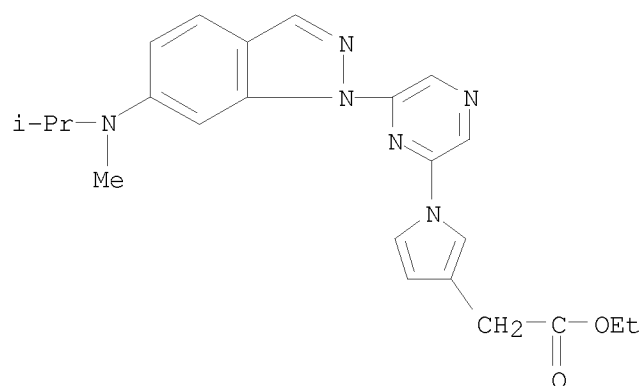
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrazines for treatment of nephritis)

RN 940881-86-7 CAPLUS

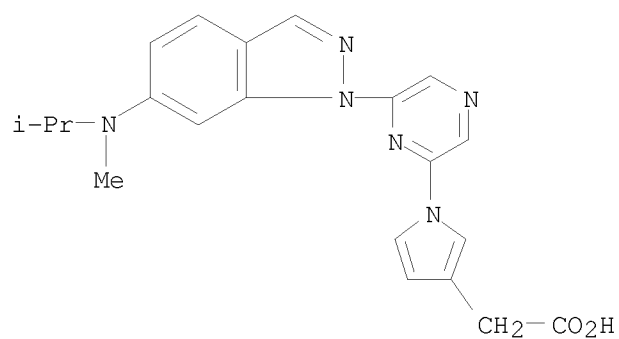
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[methyl(1-methylethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



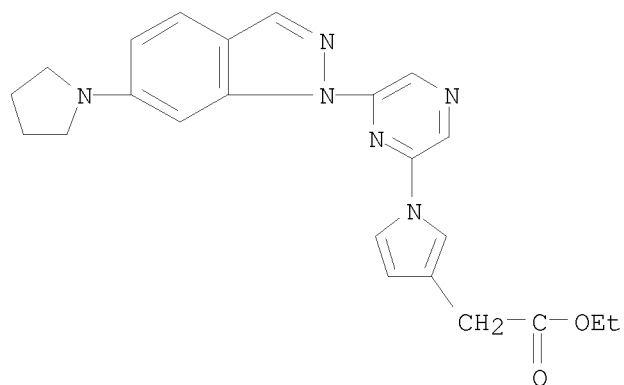
RN 940881-89-0 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[methyl(1-methylethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940881-92-5 CAPLUS

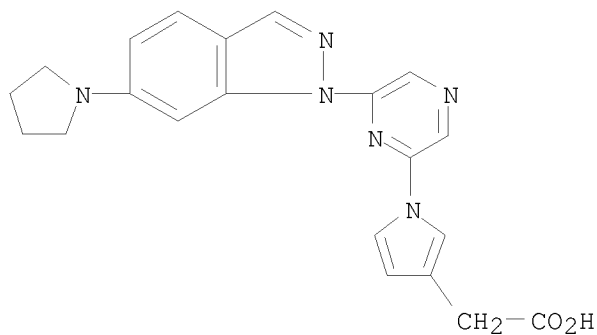
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1-pyrrolidinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



10581412

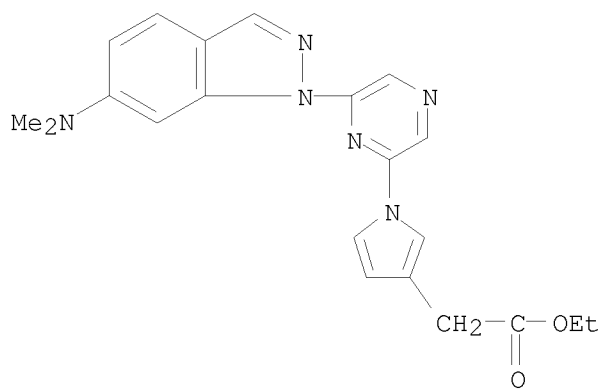
RN 940881-95-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1-pyrrolidinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940881-98-1 CAPLUS

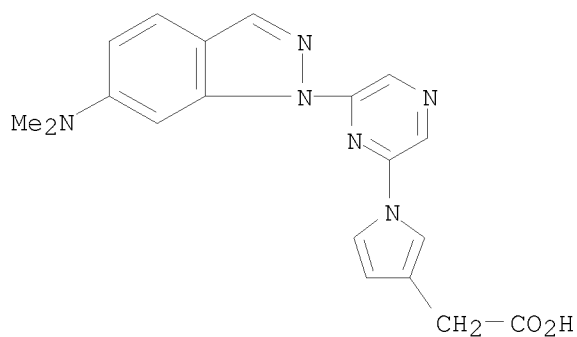
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(dimethylamino)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



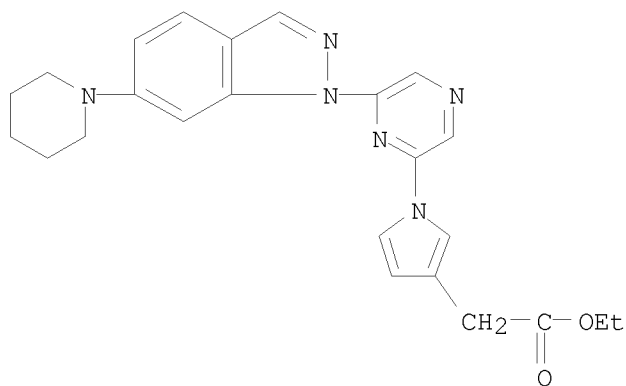
RN 940882-00-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(dimethylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

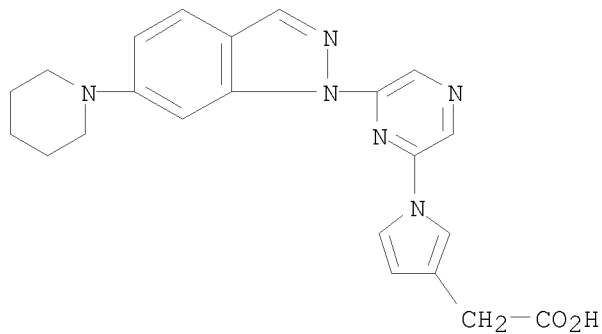
10581412



RN 940882-03-1 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1-piperidiny1)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-05-3 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1-piperidiny1)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

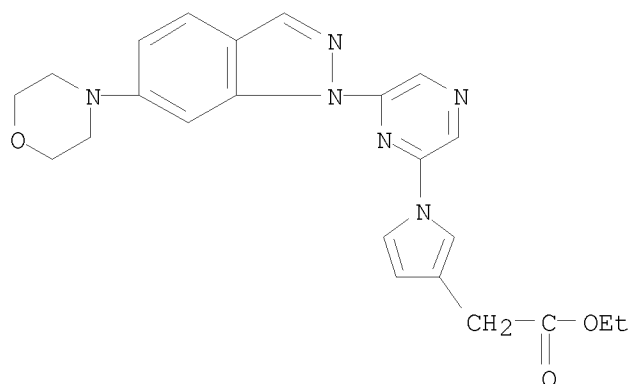


RN 940882-07-5 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-morpholinyl)-1H-indazol-1-yl]-2-pyrazinyl]-



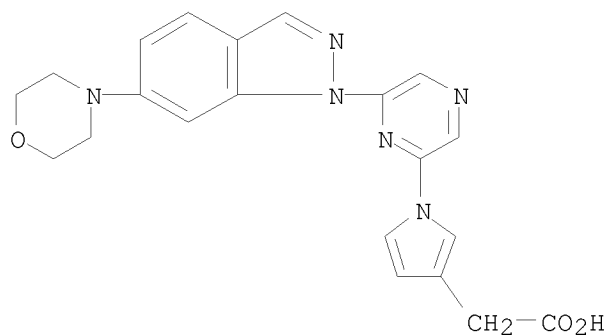
10581412

pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-09-7 CAPLUS

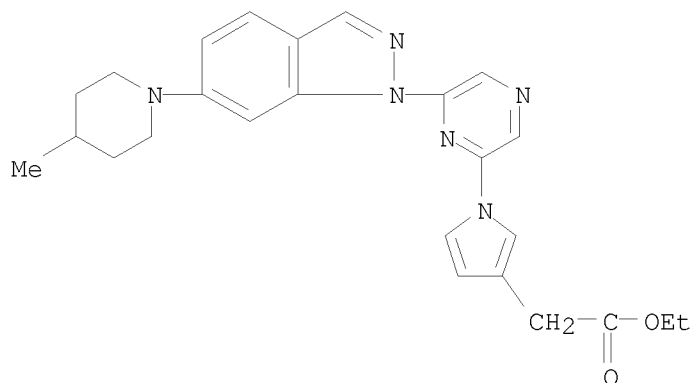
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-morpholinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-11-1 CAPLUS

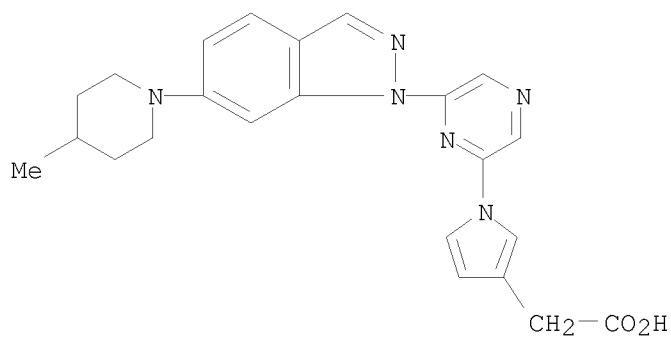
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methyl-1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



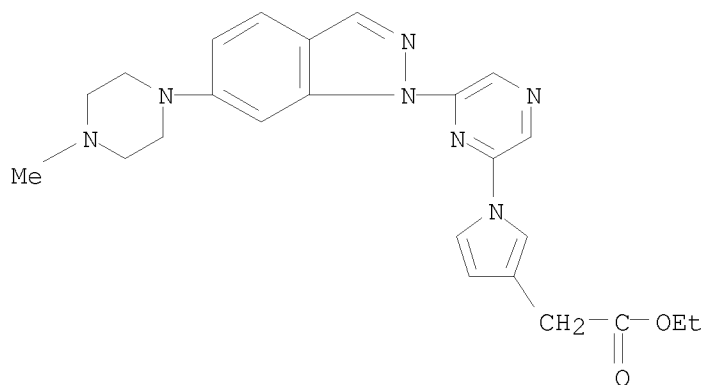
RN 940882-13-3 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methyl-1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-15-5 CAPLUS

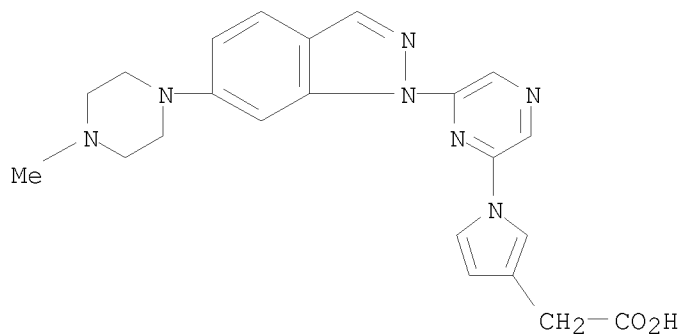
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methyl-1-piperazinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



10581412

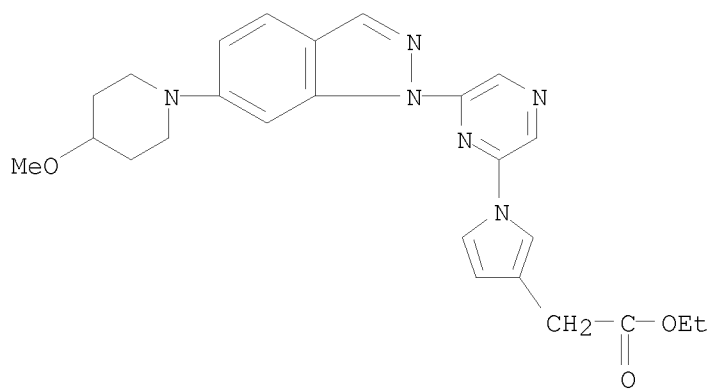
RN 940882-17-7 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methyl-1-piperazinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-19-9 CAPLUS

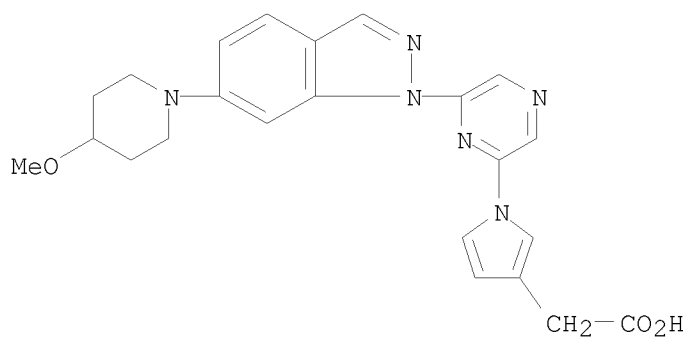
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methoxy-1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



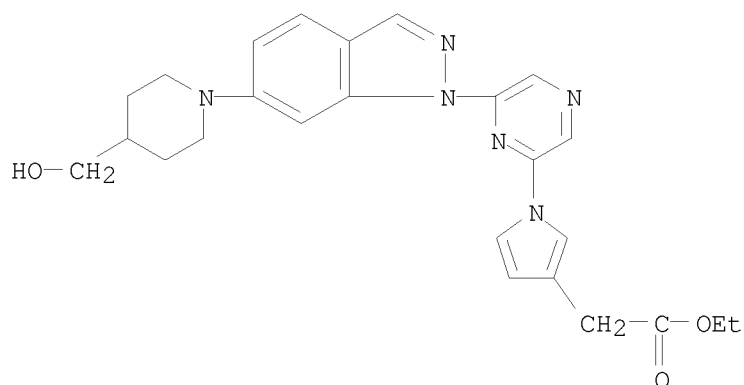
RN 940882-21-3 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(4-methoxy-1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

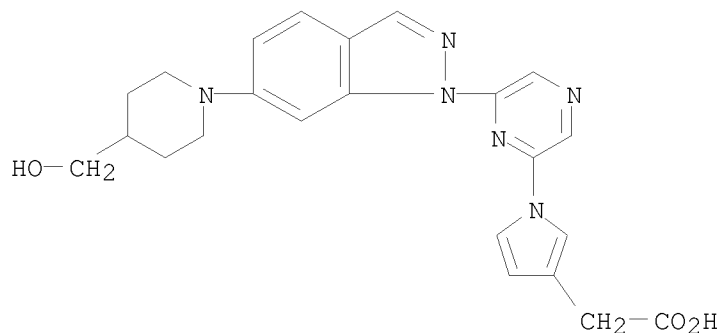
10581412



RN 940882-23-5 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(hydroxymethyl)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



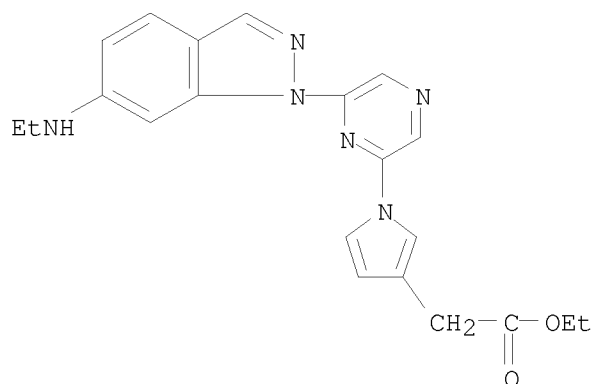
RN 940882-24-6 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(hydroxymethyl)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-25-7 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(ethylamino)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

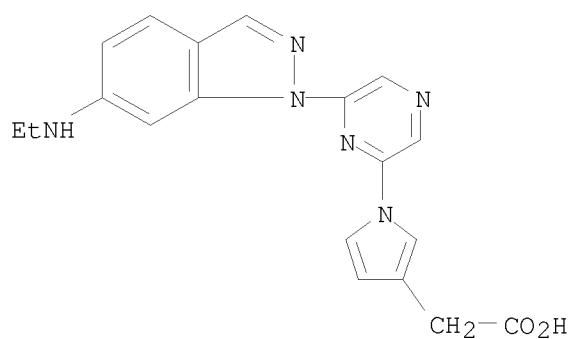
10581412

pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-26-8 CAPLUS

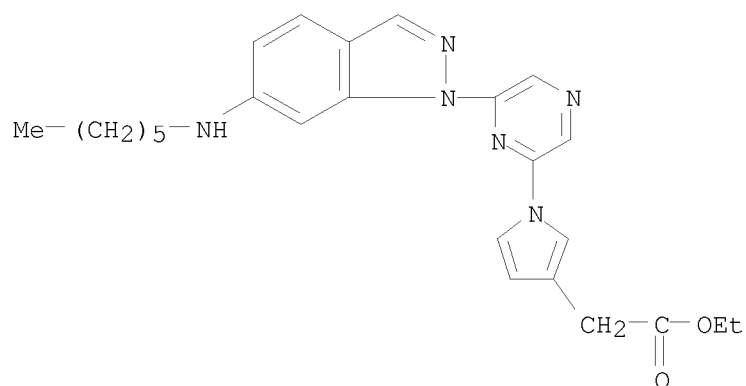
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(ethylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-27-9 CAPLUS

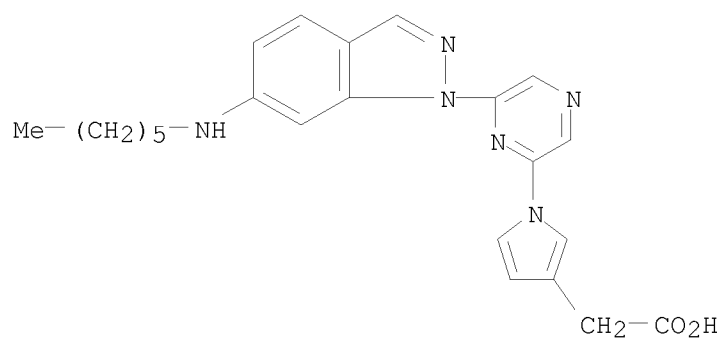
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(hexylamino)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



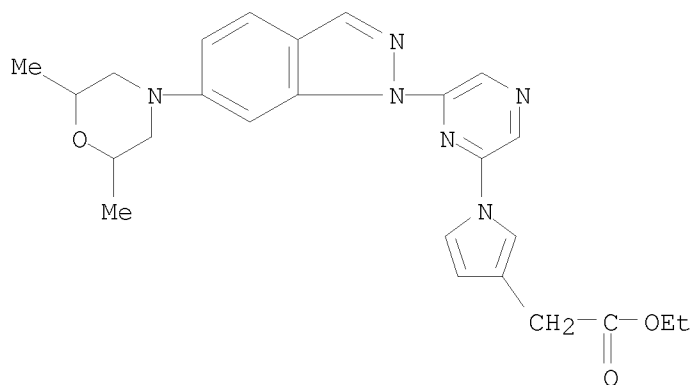
RN 940882-28-0 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(hexylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-29-1 CAPLUS

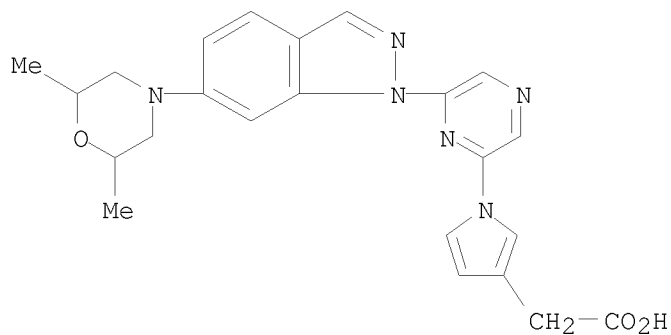
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(2,6-dimethyl-4-morpholinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



10581412

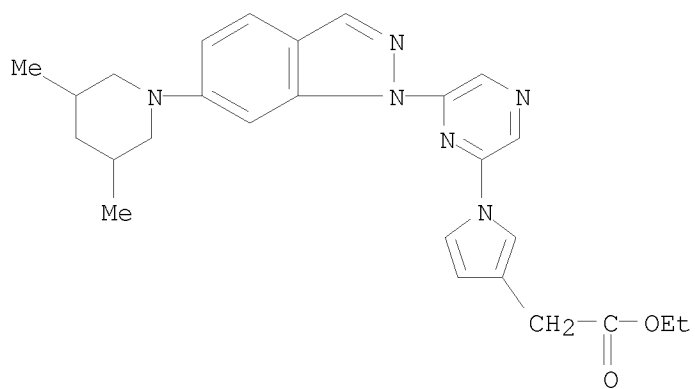
RN 940882-30-4 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(2,6-dimethyl-4-morpholinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-31-5 CAPLUS

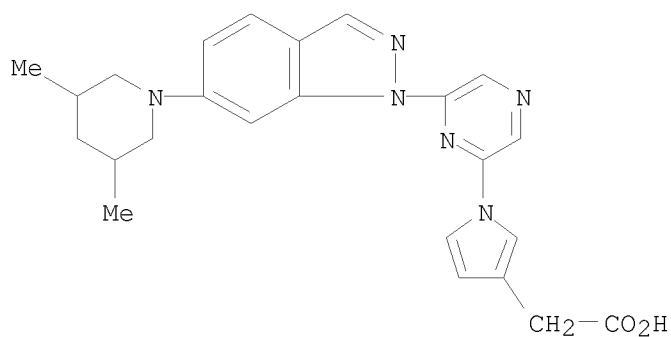
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(3,5-dimethyl-1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-32-6 CAPLUS

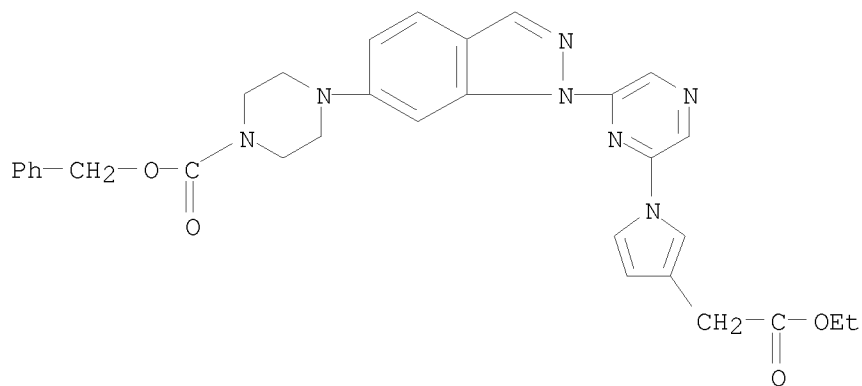
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(3,5-dimethyl-1-piperidinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



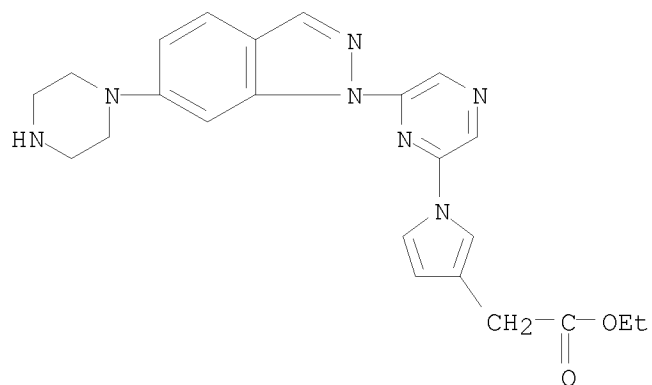
RN 940882-33-7 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[1-[6-[3-(2-ethoxy-2-oxoethyl)-1H-pyrrol-1-yl]-2-pyrazinyl]-1H-indazol-6-yl]-, phenylmethyl ester (CA INDEX NAME)



RN 940882-34-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1-piperazinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

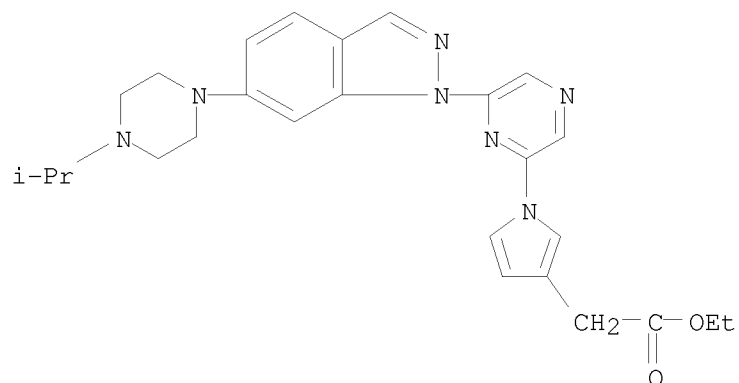




10581412

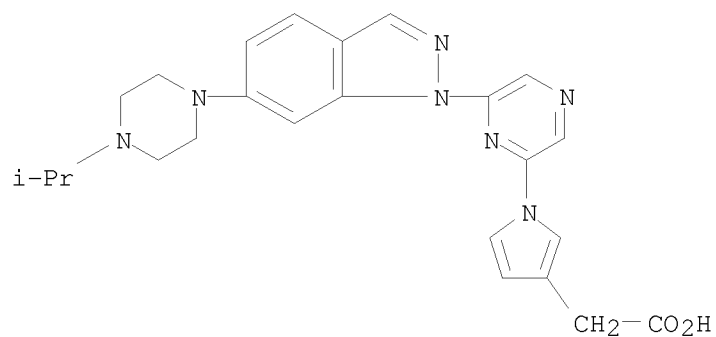
RN 940882-35-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(1-methylethyl)-1-piperazinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-36-0 CAPLUS

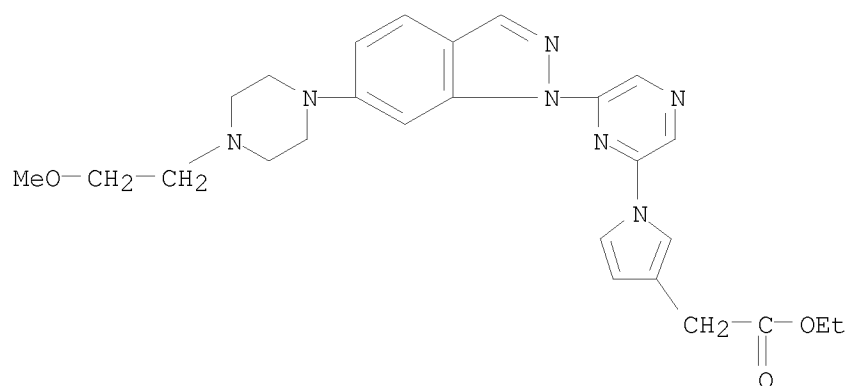
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(1-methylethyl)-1-piperazinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-37-1 CAPLUS

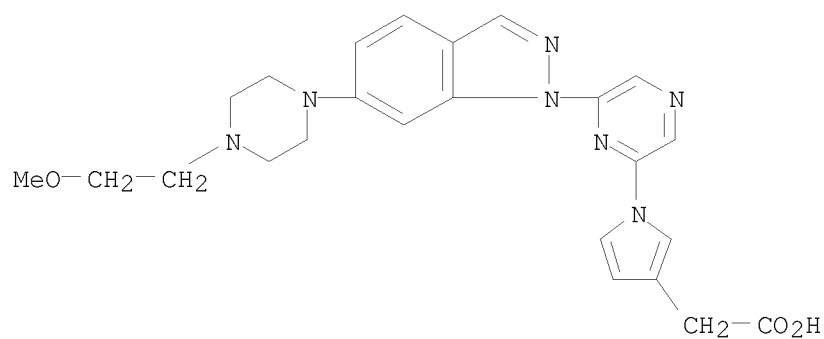
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(2-methoxyethyl)-1-piperazinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



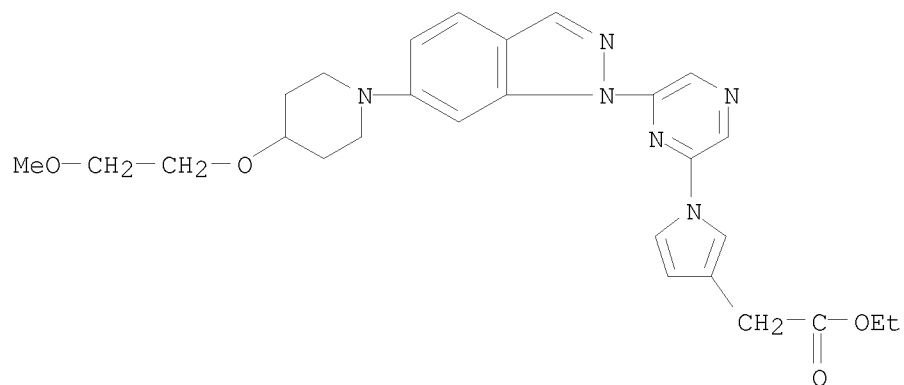
RN 940882-38-2 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(2-methoxyethyl)-1-piperazinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-39-3 CAPLUS

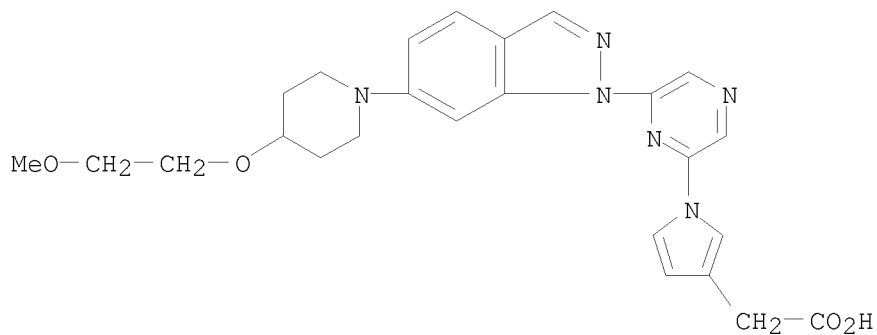
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(2-methoxyethoxy)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



10581412

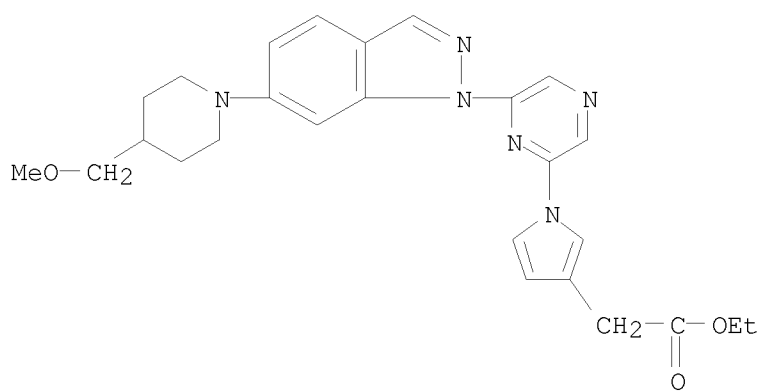
RN 940882-40-6 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(2-methoxyethoxy)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-41-7 CAPLUS

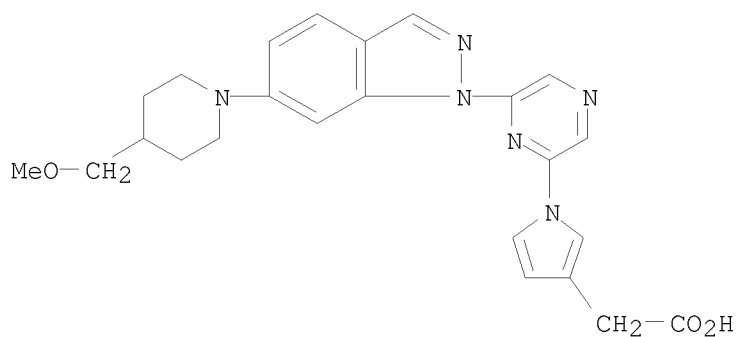
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(methoxymethyl)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



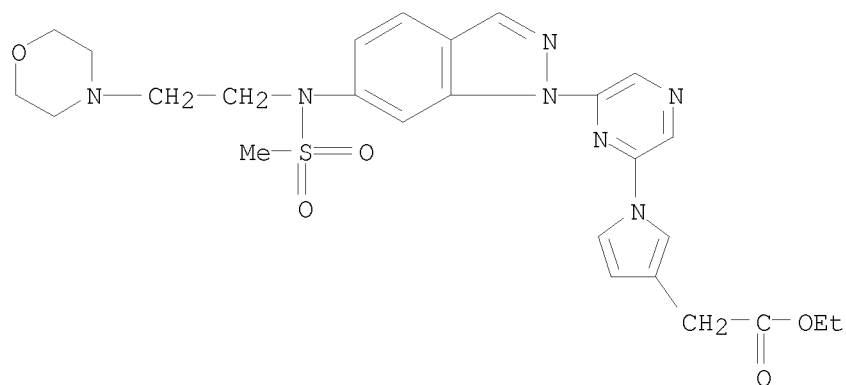
RN 940882-42-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(methoxymethyl)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

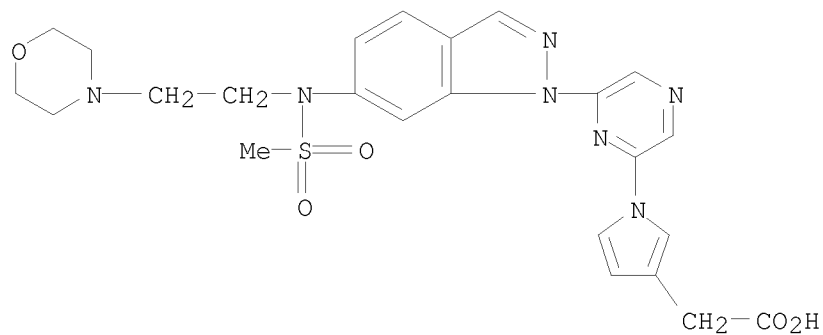
10581412



RN 940882-43-9 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(methanesulfonyl)[2-(4-morpholinyl)ethyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



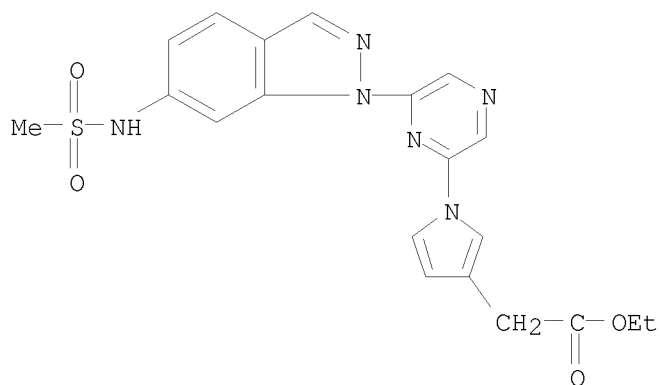
RN 940882-44-0 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(methanesulfonyl)[2-(4-morpholinyl)ethyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-45-1 CAPLUS

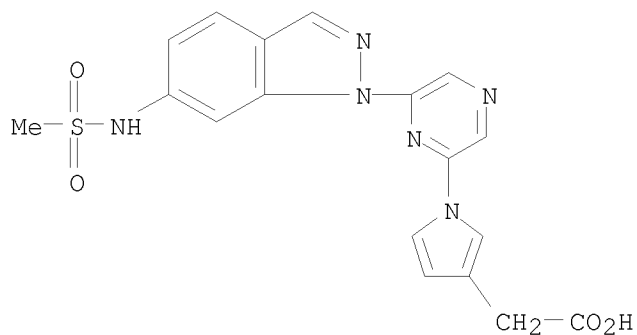
10581412

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(methylsulfonyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-46-2 CAPLUS

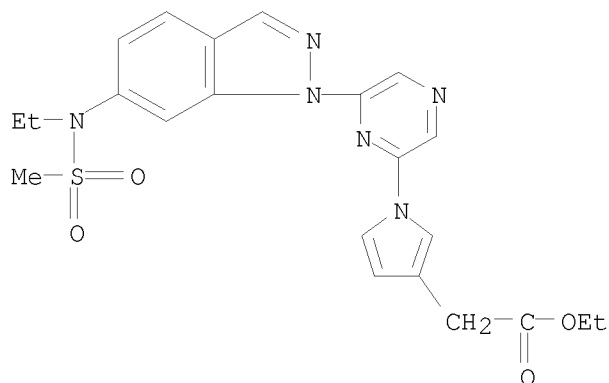
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(methylsulfonyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-47-3 CAPLUS

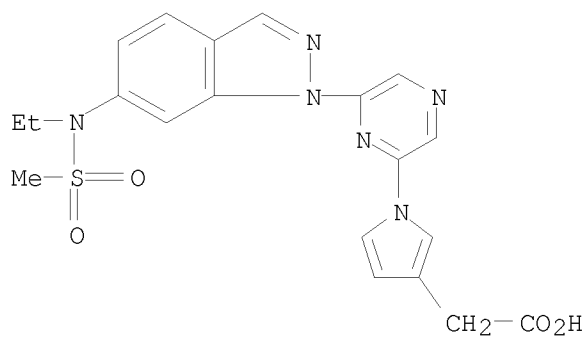
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[ethyl(methylsulfonyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



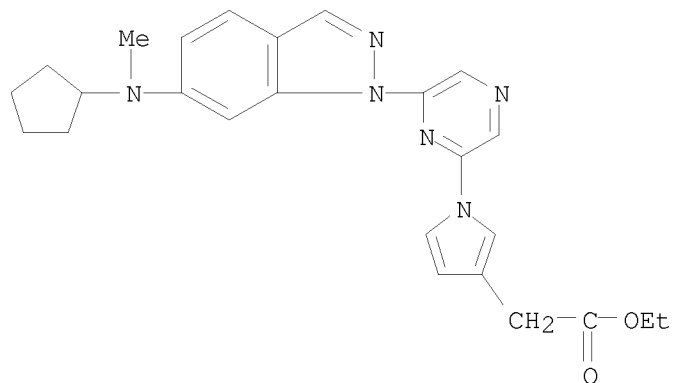
RN 940882-48-4 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[ethyl(methylsulfonyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-49-5 CAPLUS

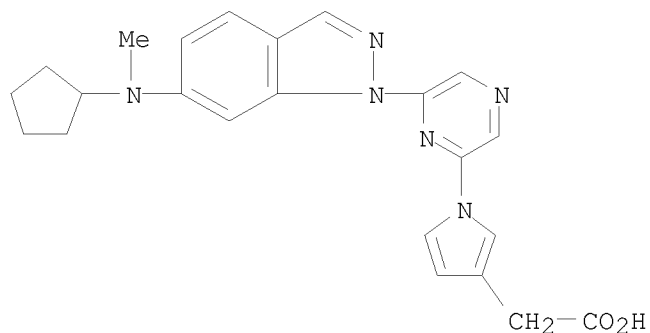
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cyclopentylmethylamino)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



10581412

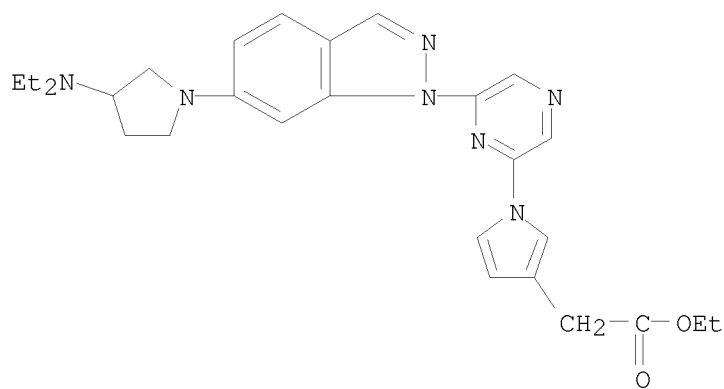
RN 940882-50-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cyclopentylmethylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-51-9 CAPLUS

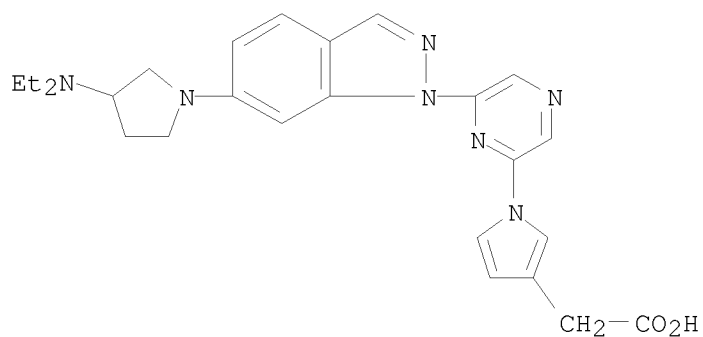
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[3-(diethylamino)-1-pyrrolidinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-52-0 CAPLUS

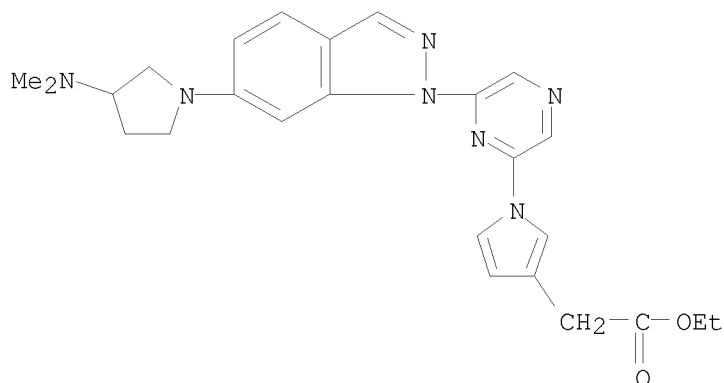
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[3-(diethylamino)-1-pyrrolidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



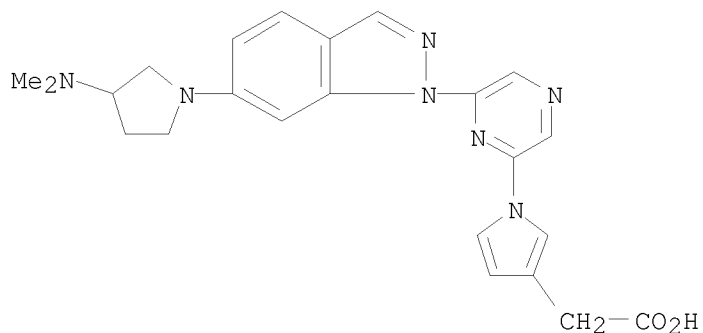
RN 940882-53-1 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[3-(dimethylamino)-1-pyrrolidinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-54-2 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[3-(dimethylamino)-1-pyrrolidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



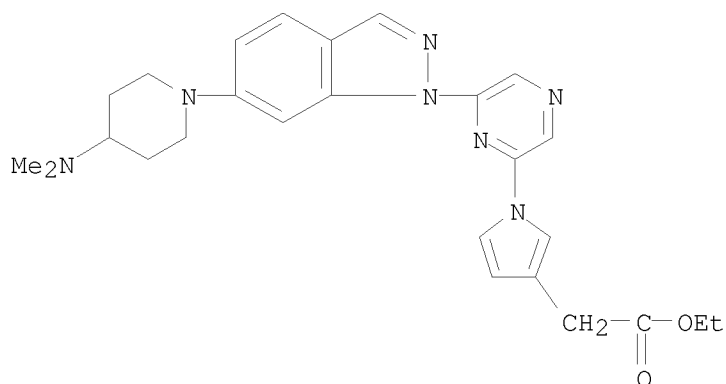
RN 940882-55-3 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(dimethylamino)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



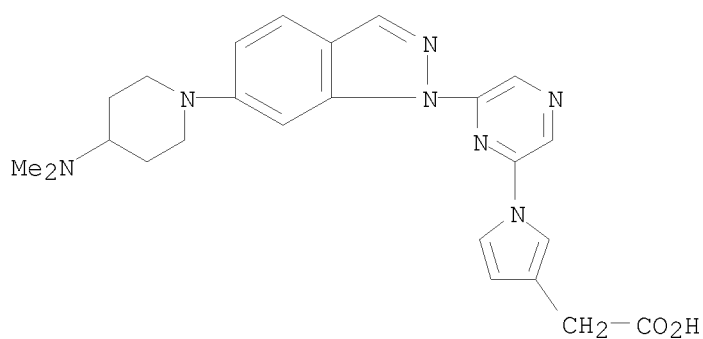
10581412

indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-56-4 CAPLUS

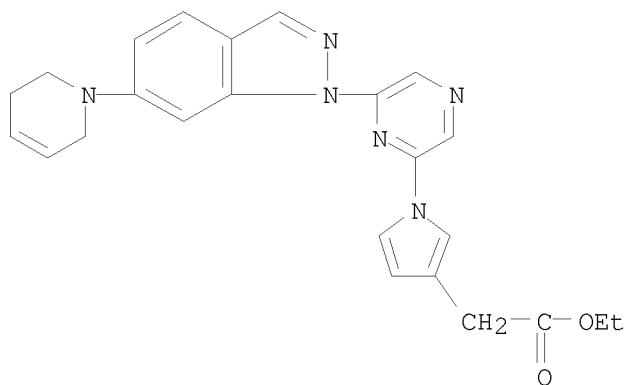
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[4-(dimethylamino)-1-piperidinyl]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-57-5 CAPLUS

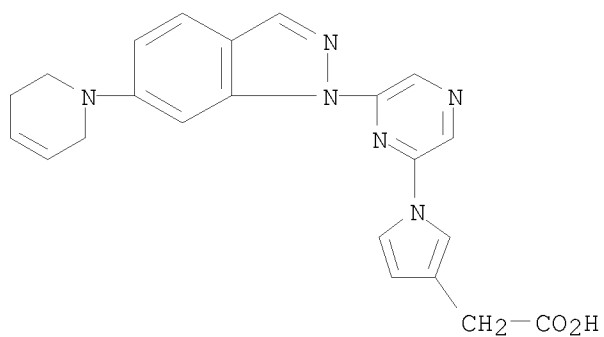
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(3,6-dihydro-1(2H)-pyridinyl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



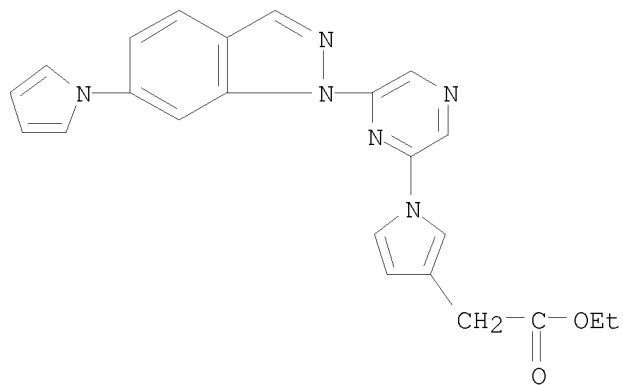
RN 940882-58-6 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(3,6-dihydro-1(2H)-pyridinyl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-59-7 CAPLUS

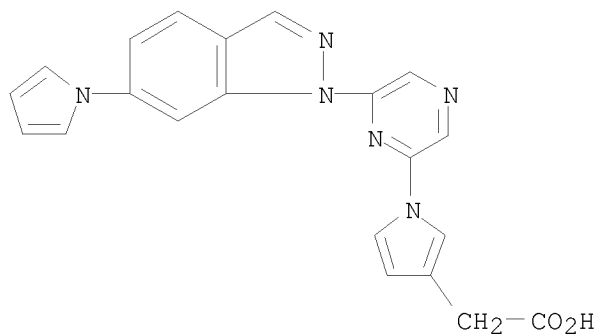
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1H-pyrrol-1-yl)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



10581412

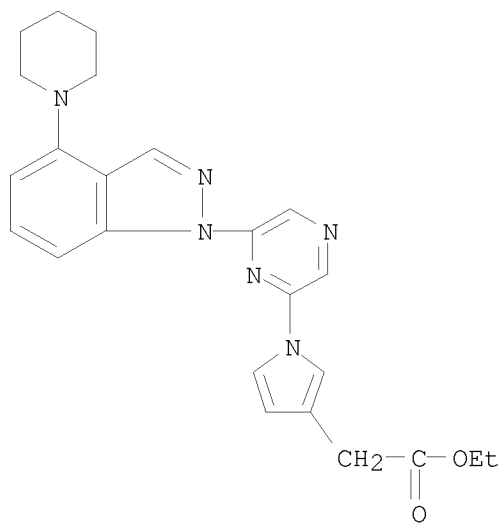
RN 940882-60-0 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(1H-pyrrol-1-yl)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-61-1 CAPLUS

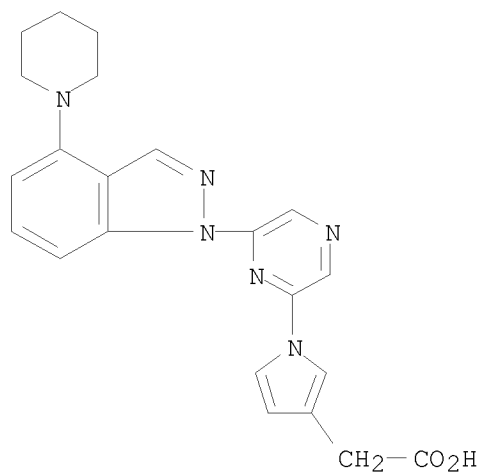
CN 1H-Pyrrole-3-acetic acid, 1-[6-[4-(1-piperidiny)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-62-2 CAPLUS

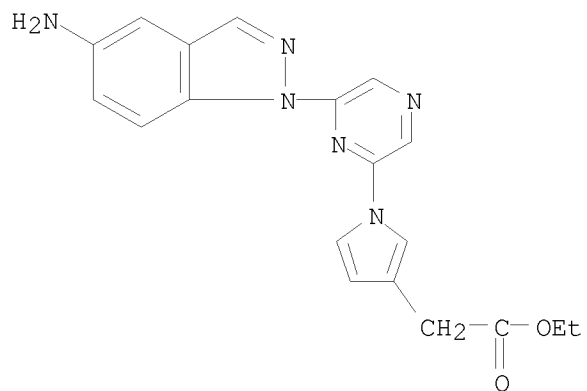
CN 1H-Pyrrole-3-acetic acid, 1-[6-[4-(1-piperidiny)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



RN 940882-63-3 CAPLUS

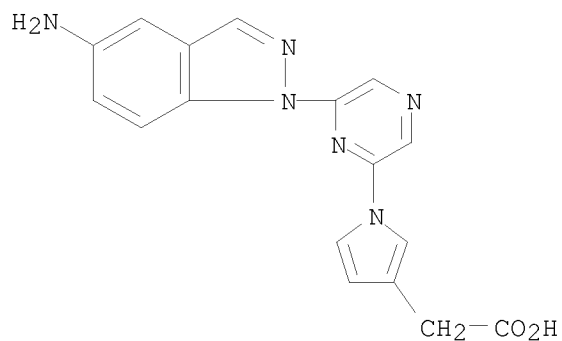
CN 1H-Pyrrole-3-acetic acid, 1-[6-(5-amino-1H-indazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 940882-64-4 CAPLUS

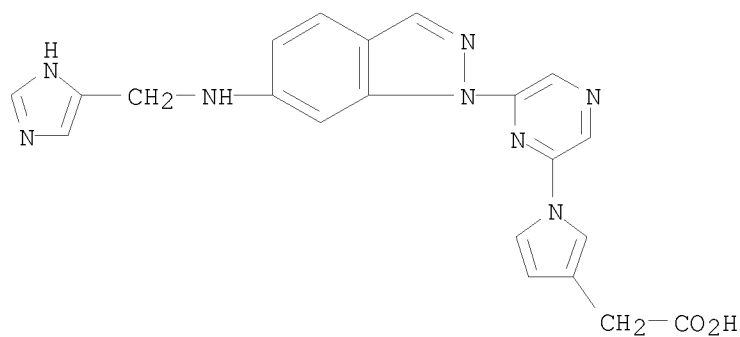
CN 1H-Pyrrole-3-acetic acid, 1-[6-(5-amino-1H-indazol-1-yl)-2-pyrazinyl]-, (CA INDEX NAME)

10581412



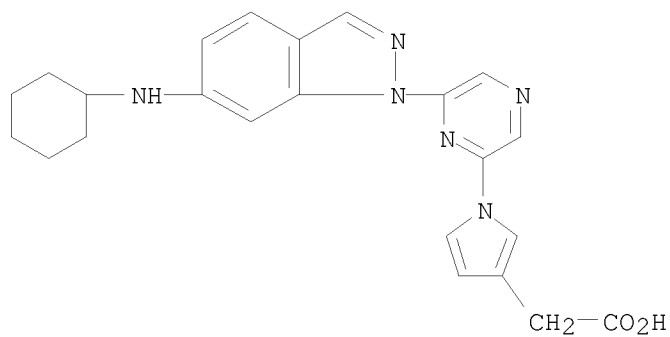
RN 940882-65-5 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(1H-imidazol-5-ylmethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-66-6 CAPLUS

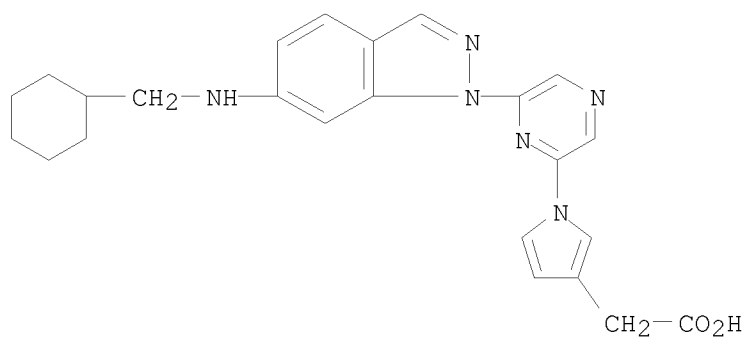
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cyclohexylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-67-7 CAPLUS

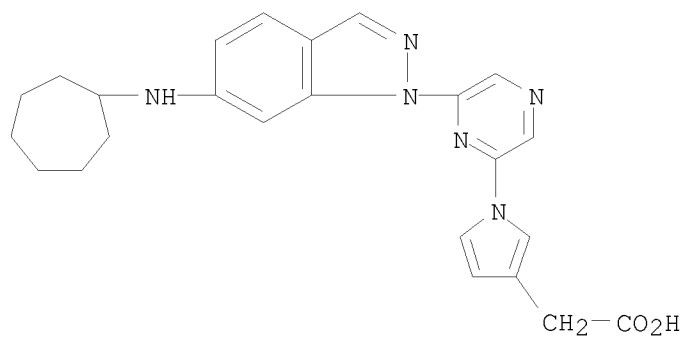
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(cyclohexylmethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



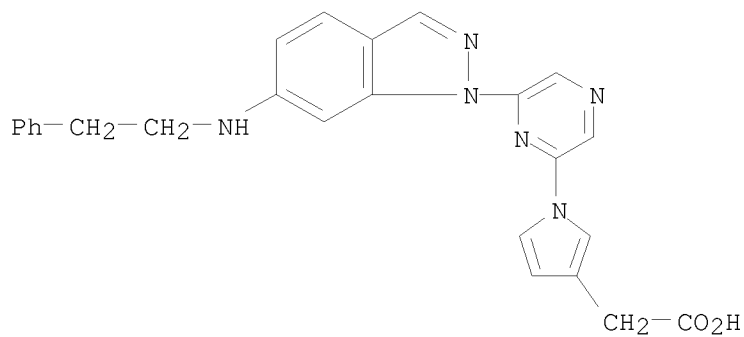
RN 940882-68-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cycloheptylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-69-9 CAPLUS

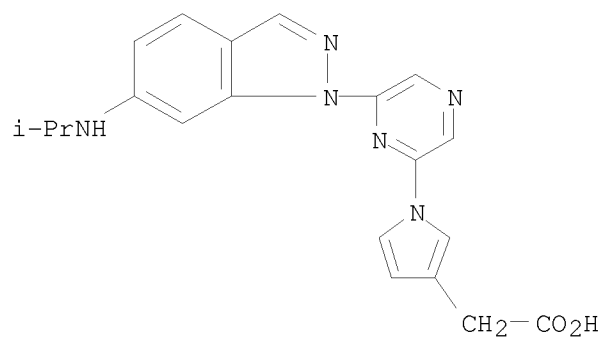
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(2-phenylethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-70-2 CAPLUS

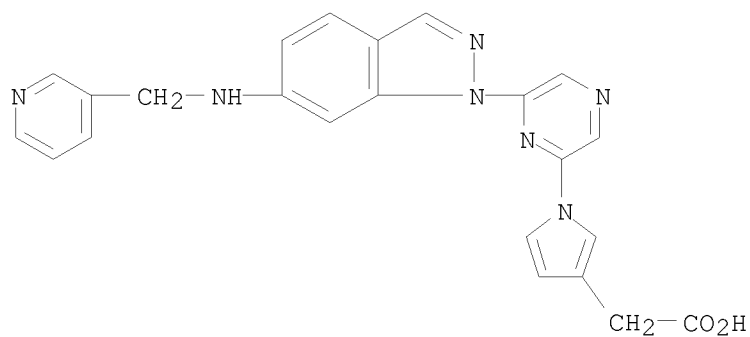
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(1-methylethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



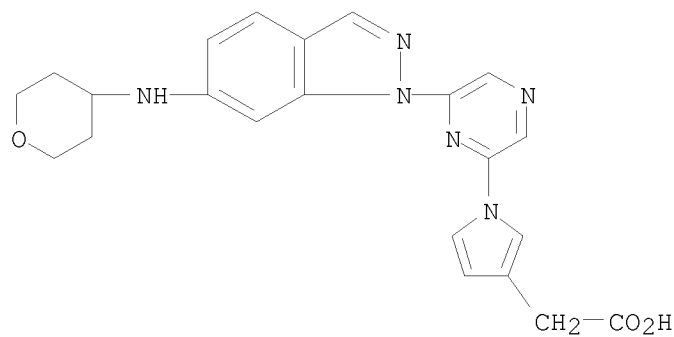
RN 940882-71-3 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(3-pyridinylmethyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-72-4 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(3-methylbutyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-73-5 CAPLUS

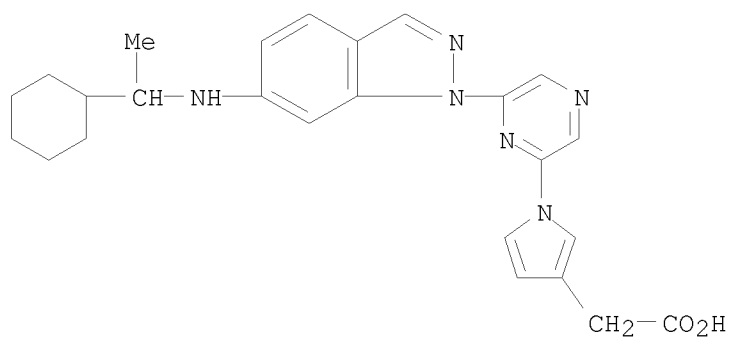
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(3-methylbutyl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

CCNCCNc1ccc2c(c1)c(cnn2)c3ccn(c3)c4ccccc4C(=O)OCC1=CN(C1)C2=CC=CC=C2N3C=CC=CC=C3N4C=CC(=C4)N(C5=CC=CC=C5C(=O)O)C6=CC=CC=C6N7CCCCN7C8=CC=CC=C8NC(=O)Cc1ccc(cc1)-c2cc3ccccc3n2

Page 88

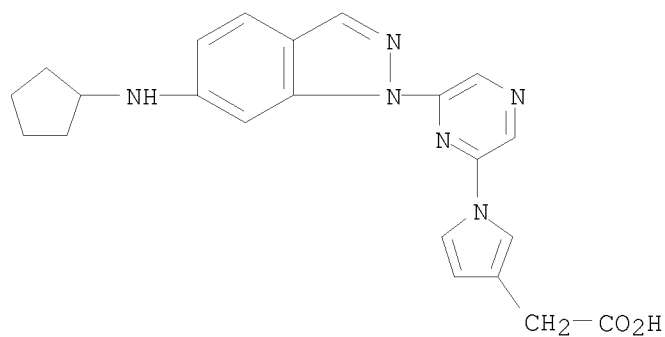


10581412



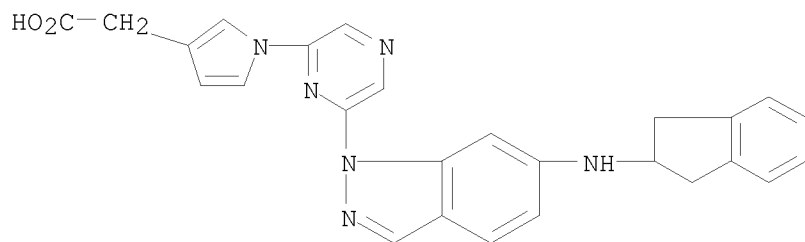
RN 940882-77-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(cyclopentylamino)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-78-0 CAPLUS

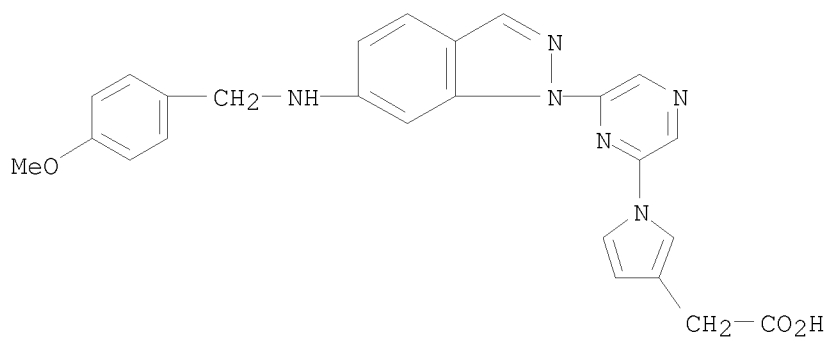
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[(2,3-dihydro-1H-inden-2-yl)amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-79-1 CAPLUS

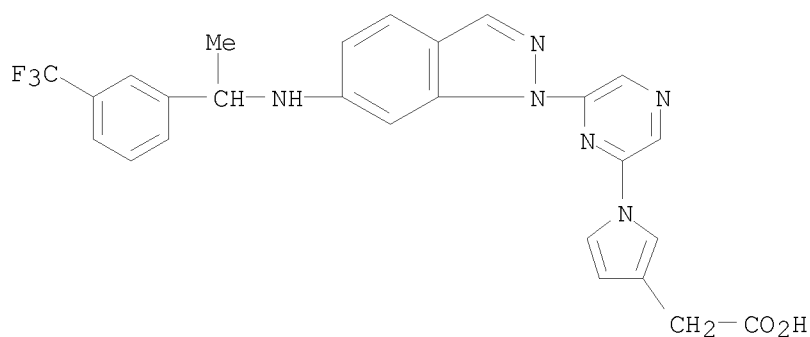
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[4-methoxyphenyl)methyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



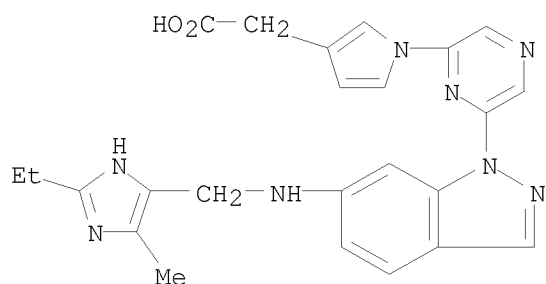
RN 940882-80-4 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[1-[3-(trifluoromethyl)phenyl]ethyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-81-5 CAPLUS

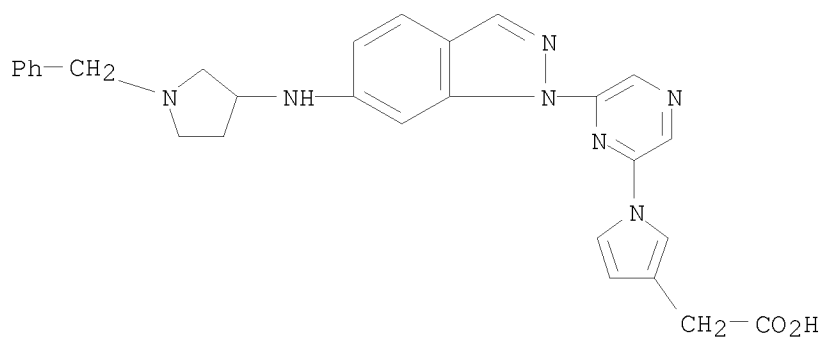
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[1-[3-(2-ethyl-4-methyl-1H-imidazol-5-yl)methyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-82-6 CAPLUS

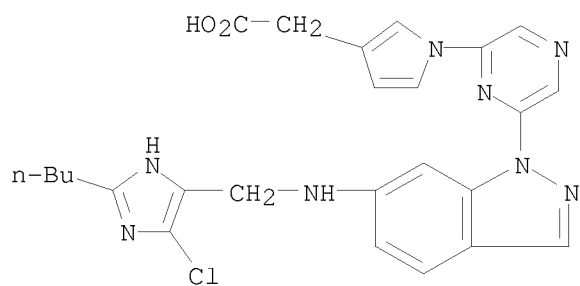
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[1-(phenylmethyl)-3-pyrrolidinyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



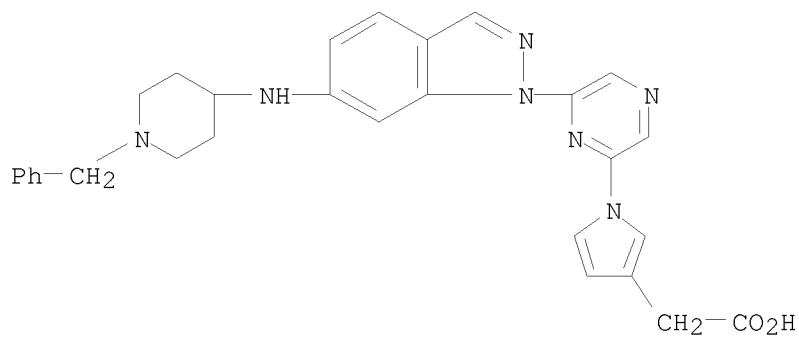
RN 940882-83-7 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[2-butyl-5-chloro-1H-imidazol-4-yl)methyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 940882-84-8 CAPLUS

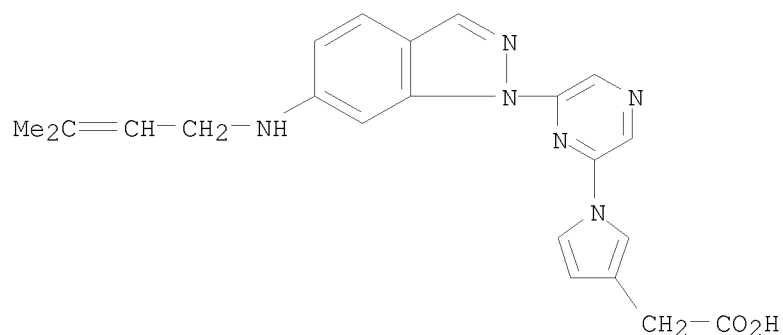
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[1-(phenylmethyl)-4-piperidinyl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



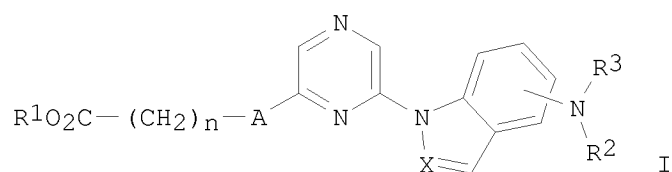
RN 940882-85-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-[[3-methyl-2-buten-1-yl]amino]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



GI



AB Title compds. I [ $n = 0-2$ ;  $\text{R}^1 = \text{H}$ , C1-4 linear alkyl;  $\text{A} = (\text{C1-4 linear alkyl-substituted})$  indolediyl, pyrrolediyl, furandiyl, thiophenediyl, pyrazolediyl, imidazolediyl, etc.;  $\text{X} = \text{N}$ ,  $\text{CH}$ ;  $\text{R}^2$ ,  $\text{R}^3 = \text{H}$ , C1-8 linear alkyl, (un)substituted C3-8 branched or cyclic alkyl,  $\text{COR}^4$ ,  $\text{SO}_2\text{R}^4$ ;  $\text{R}^4 = \text{H}$ , C1-3 linear alkyl, C3-5 branched alkyl, Ph;  $\text{R}^2 = \text{R}^3 \neq \text{H}$ ;  $\text{R}^2\text{NR}^3$  may form (un)saturated (un)substituted 5- to 6-membered heterocyclyl] are prepared Thus, Et 2-[1-(6-iodopyrazin-2-yl)pyrrol-3-yl]acetate was reacted with 6-(piperidin-1-yl)-1H-indazole to give Et 2-[1-[6-[6-(piperidin-1-yl)-1H-indazol-1-yl]pyrazin-2-yl]-1H-pyrrol-3-yl]acetate, which was hydrolyzed to afford the corresponding carboxylic acid. The product inhibited PDGF-stimulated mesangial cell proliferation with  $\text{IC}_{50}$  value of  $2.0 \mu\text{M}$ .

10581412

L4 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:144145 CAPLUS

DOCUMENT NUMBER: 144:212807

TITLE: Preparation of pyrazines, medicines containing them,  
and their pharmaceutical use for treatment of  
nephritis

INVENTOR(S): Takahashi, Toshiya; Fuchi, Nobuhiro; Yamada, Masaki;  
Nitta, Aiko

PATENT ASSIGNEE(S): Toray Industries, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 83 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2006045119	A	20060216	JP 2004-228530	20040804
PRIORITY APPLN. INFO.:			JP 2004-228530	20040804

OTHER SOURCE(S): MARPAT 144:212807

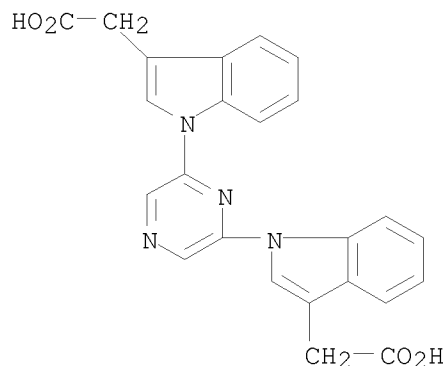
IT 875899-98-2P 875900-18-8P

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological  
activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL  
(Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrazines for treatment of nephritis)

RN 875899-98-2 CAPLUS

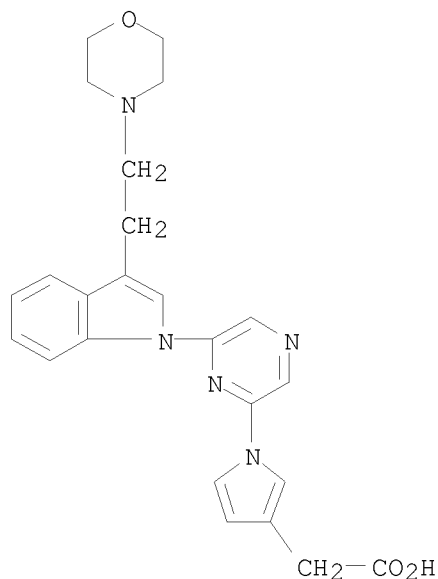
CN 1H-Indole-3-acetic acid, 1-[6-[3-(carboxymethyl)-1H-indol-1-yl]-2-  
pyrazinyl]- (CA INDEX NAME)



RN 875900-18-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-[2-(4-morpholinyl)ethyl]-1H-indol-1-yl]-  
2-pyrazinyl]- (CA INDEX NAME)

10581412



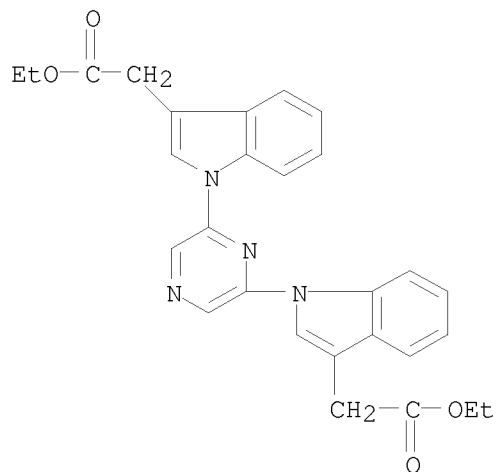
IT 875899-97-1P 875900-00-8P 875900-02-0P  
875900-04-2P 875900-06-4P 875900-11-1P  
875900-13-3P 875900-17-7P 875900-20-2P  
875900-22-4P 875900-24-6P 875900-26-8P  
875900-29-1P 875900-31-5P 875900-32-6P  
875900-34-8P 875900-36-0P 875900-38-2P  
875900-40-6P 875900-42-8P 875900-68-8P  
875900-70-2P 875900-72-4P 875900-74-6P  
875900-76-8P 875900-78-0P 875900-80-4P  
875900-82-6P 875900-84-8P 875900-86-0P  
875900-88-2P 875900-90-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of pyrazines for treatment of nephritis)

RN 875899-97-1 CAPLUS

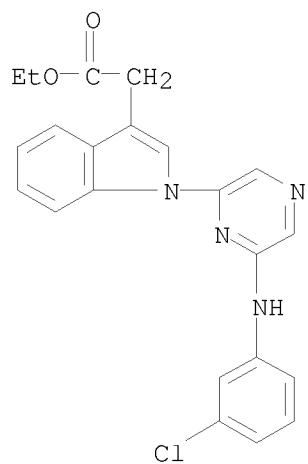
CN 1H-Indole-3-acetic acid, 1,1'-(2,6-pyrazinediyl)bis-, diethyl ester (9CI)  
(CA INDEX NAME)

10581412



RN 875900-00-8 CAPLUS

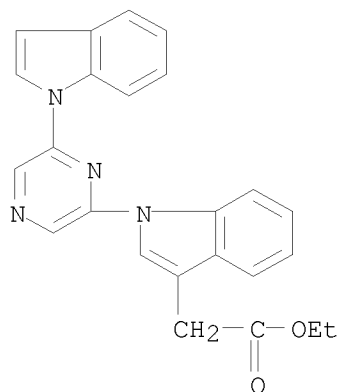
CN 1H-Indole-3-acetic acid, 1-[6-[(3-chlorophenyl)amino]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 875900-02-0 CAPLUS

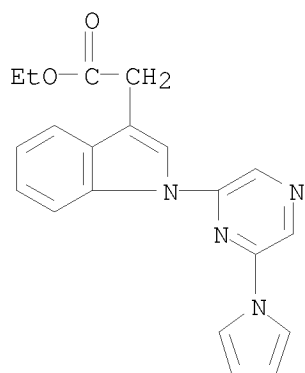
CN 1H-Indole-3-acetic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 875900-04-2 CAPLUS

CN 1H-Indole-3-acetic acid, 1-[6-(1H-pyrrol-1-yl)-2-pyrazinyl]-, ethyl ester  
(CA INDEX NAME)

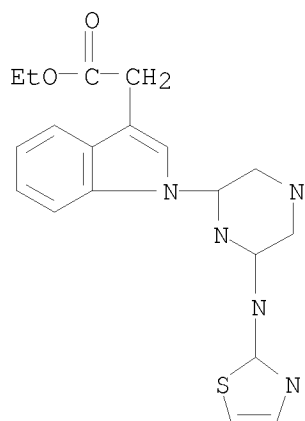


RN 875900-06-4 CAPLUS

CN 1H-Indole-3-acetic acid, 1-[6-(2-thiazolylamino)-2-pyrazinyl]-, ethyl ester  
(CA INDEX NAME)



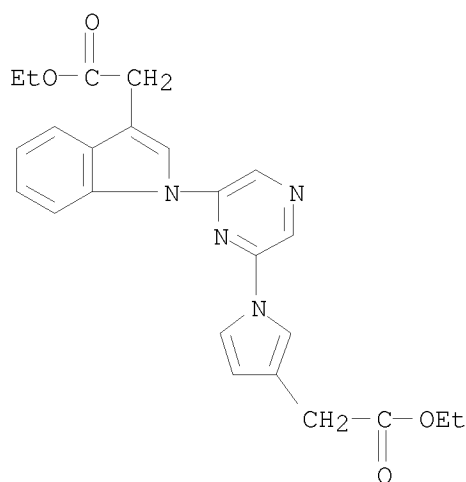
10581412



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 875900-11-1 CAPLUS

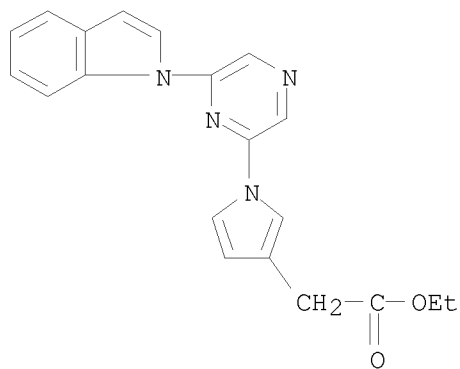
CN 1H-Indole-3-acetic acid, 1-[6-[3-(2-ethoxy-2-oxoethyl)-1H-pyrrol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 875900-13-3 CAPLUS

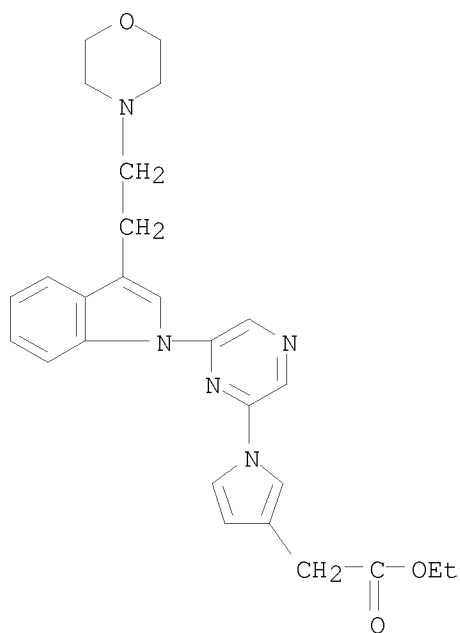
CN 1H-Pyrrole-3-acetic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 875900-17-7 CAPLUS

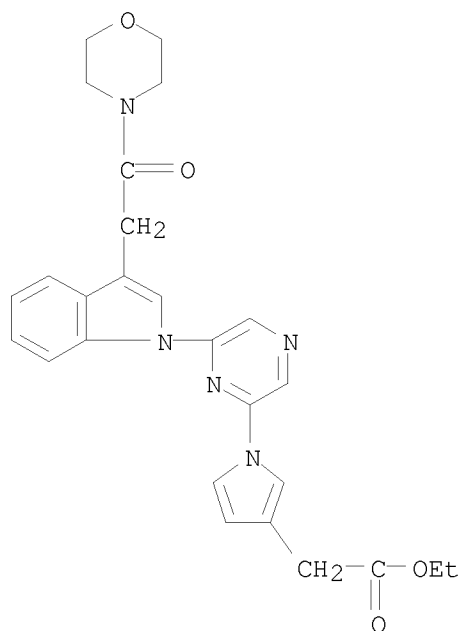
CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-[2-(4-morpholinyl)ethyl]-1H-indol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 875900-20-2 CAPLUS

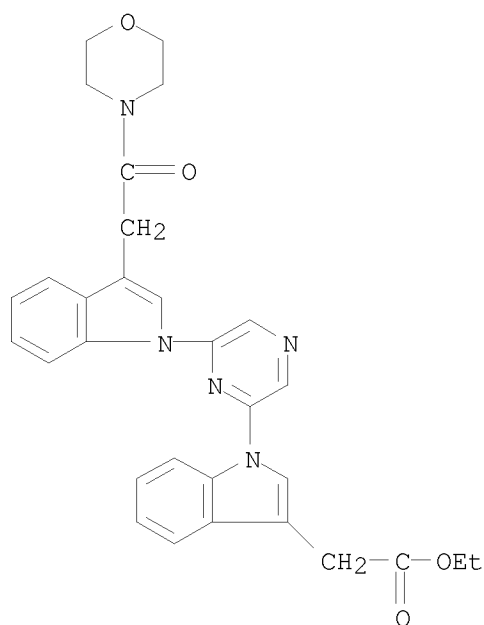
CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-[2-(4-morpholinyl)-2-oxoethyl]-1H-indol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 875900-22-4 CAPLUS

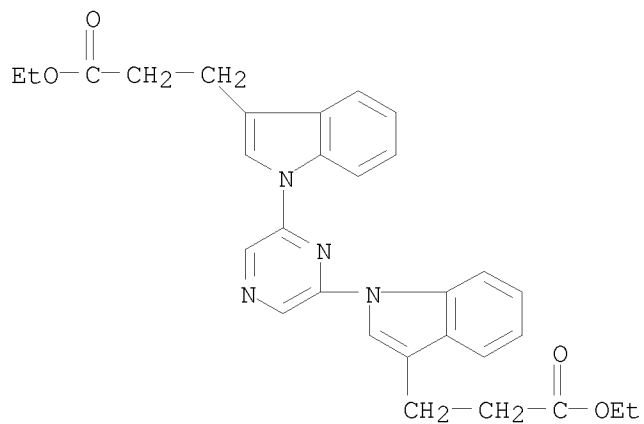
CN 1H-Indole-3-acetic acid, 1-[6-[3-[2-(4-morpholinyl)-2-oxoethyl]-1H-indol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 875900-24-6 CAPLUS

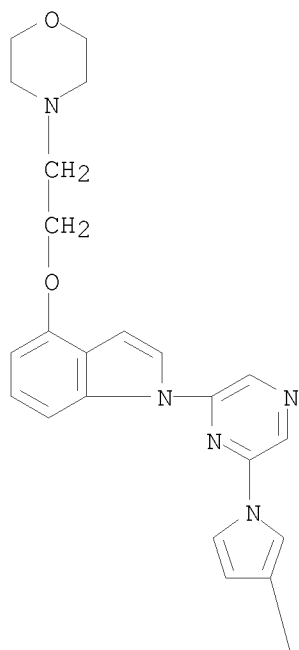
CN 1H-Indole-3-propanoic acid, 1,1'-(2,6-pyrazinediyl)bis-, diethyl ester (9CI) (CA INDEX NAME)

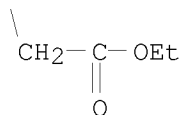
10581412



RN 875900-26-8 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[4-[2-(4-morpholinyl)ethoxy]-1H-indol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

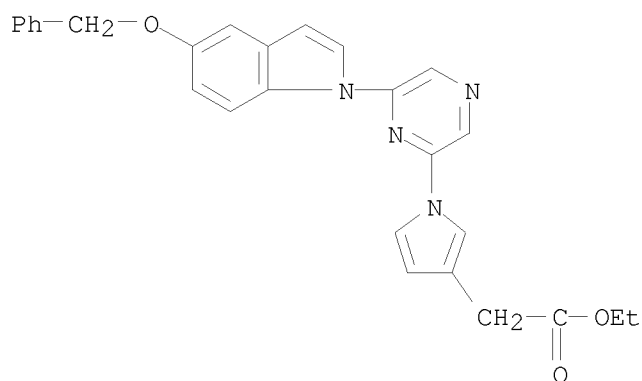
PAGE 1-A





RN 875900-29-1 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[5-(phenylmethoxy)-1H-indol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

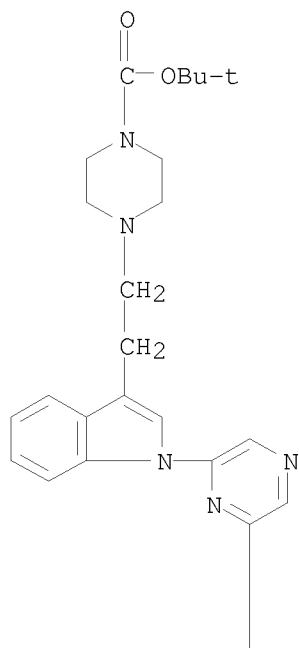


RN 875900-31-5 CAPLUS

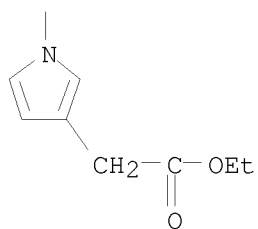
CN 1-Piperazinecarboxylic acid, 4-[2-[1-[6-[3-(2-ethoxy-2-oxoethyl)-1H-pyrrol-1-yl]-2-pyrazinyl]-1H-indol-3-yl]ethyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

10581412

PAGE 1-A



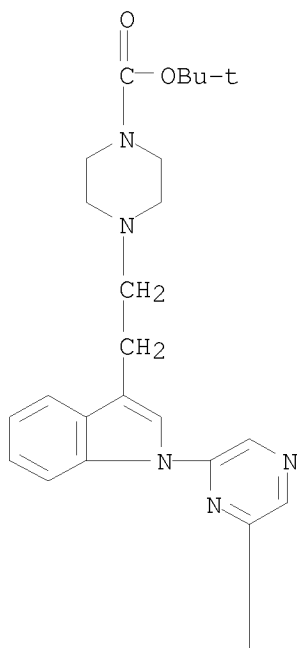
PAGE 2-A



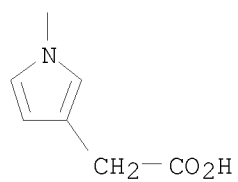
RN 875900-32-6 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[2-[1-[6-[3-(carboxymethyl)-1H-pyrrol-1-yl]-2-pyrazinyl]-1H-indol-3-yl]ethyl]-, 1-(1,1-dimethylethyl) ester (CA INDEX NAME)

10581412

PAGE 1-A

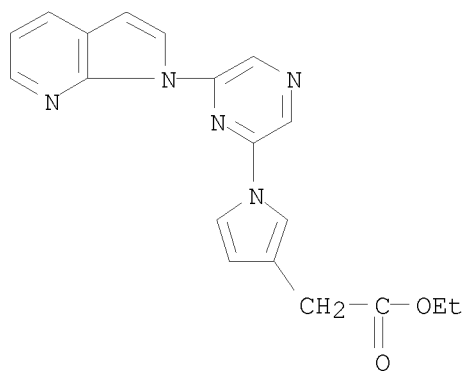


PAGE 2-A



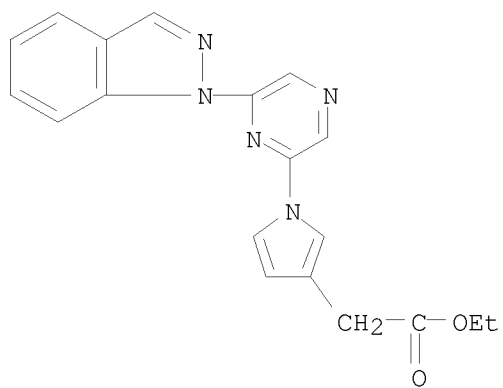
RN 875900-34-8 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-(1H-pyrrolo[2,3-b]pyridin-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



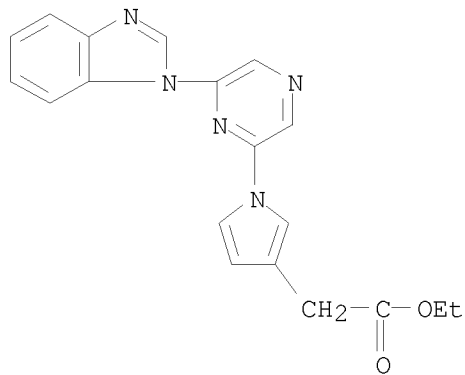
RN 875900-36-0 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(1H-indazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 875900-38-2 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(1H-benzimidazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

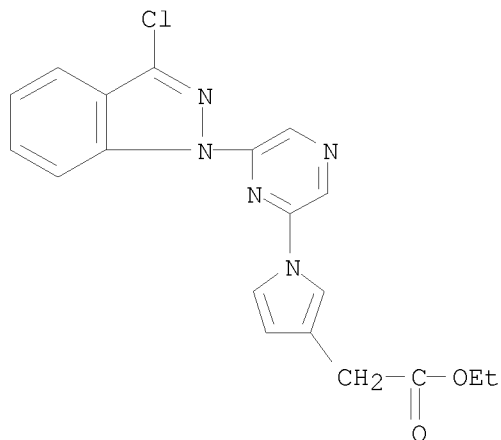




10581412

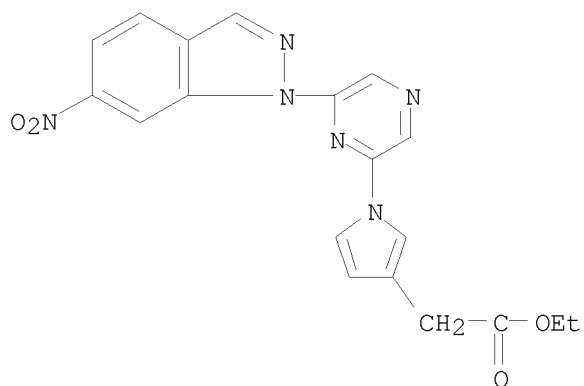
RN 875900-40-6 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(3-chloro-1H-indazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 875900-42-8 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(6-nitro-1H-indazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 875900-68-8 CAPLUS

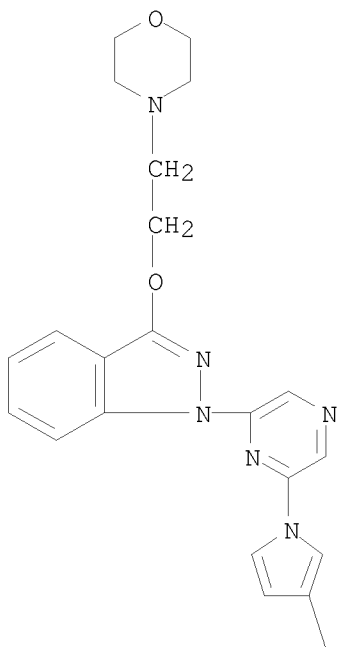
CN 1H-Pyrrole-3-acetic acid, 1-[6-(5-nitro-1H-indazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



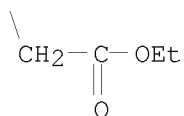
10581412

RN 875900-72-4 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-[2-(4-morpholinyl)ethoxy]-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

PAGE 1-A

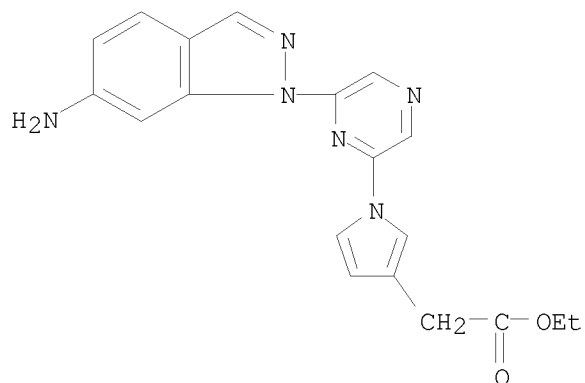


PAGE 2-A



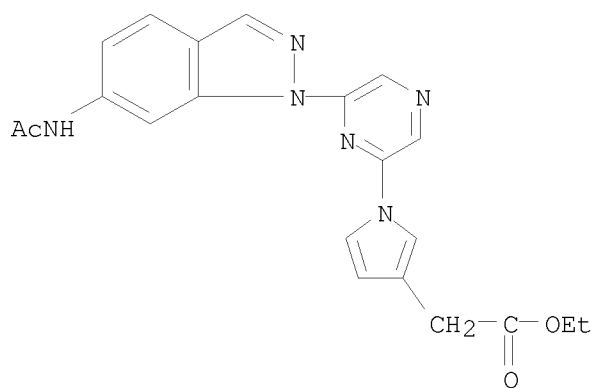
RN 875900-74-6 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-(6-amino-1H-indazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 875900-76-8 CAPLUS

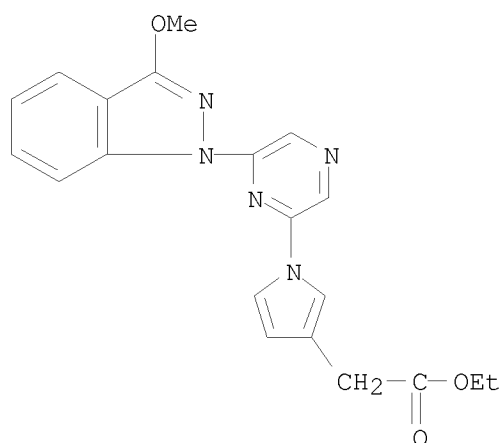
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(acetamino)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 875900-78-0 CAPLUS

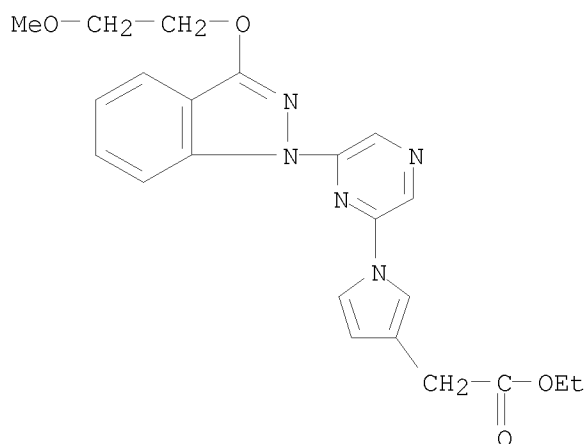
CN 1H-Pyrrole-3-acetic acid, 1-[6-(3-methoxy-1H-indazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

10581412



RN 875900-80-4 CAPLUS

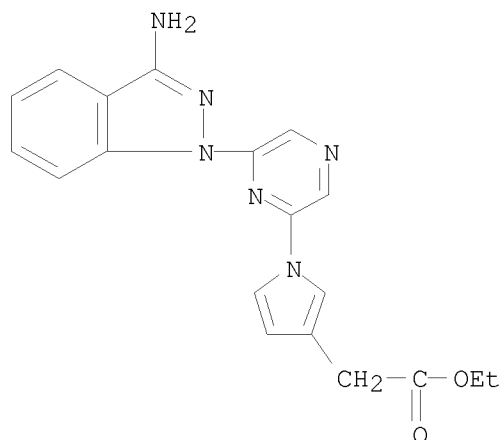
CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-(2-methoxyethoxy)-1H-indazol-1-yl]-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



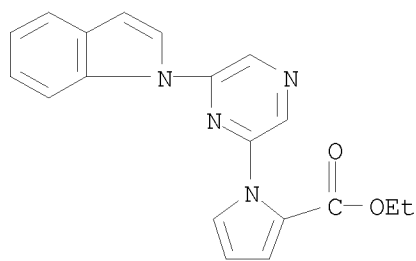
RN 875900-82-6 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(3-amino-1H-indazol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)

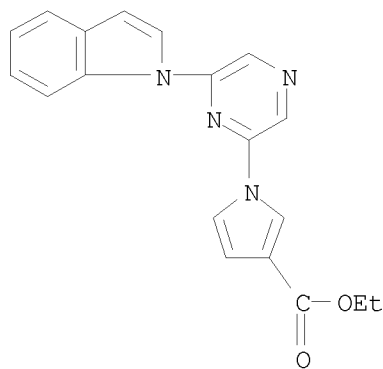
10581412



RN 875900-84-8 CAPLUS  
CN 1H-Pyrrole-2-carboxylic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



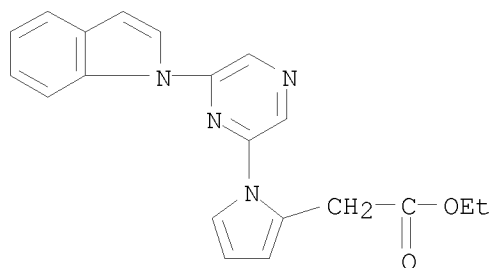
RN 875900-86-0 CAPLUS  
CN 1H-Pyrrole-3-carboxylic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



RN 875900-88-2 CAPLUS  
CN 1H-Pyrrole-2-acetic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]-, ethyl ester

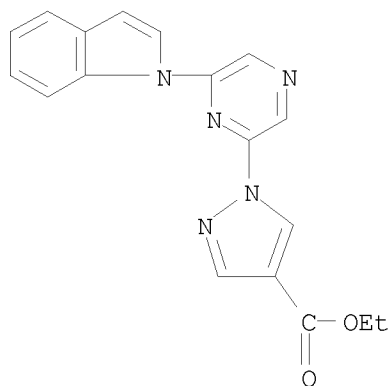
10581412

(CA INDEX NAME)



RN 875900-90-6 CAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]-, ethyl ester (CA INDEX NAME)



IT 875900-01-9P 875900-03-1P 875900-05-3P  
875900-07-5P 875900-12-2P 875900-14-4P  
875900-21-3P 875900-23-5P 875900-25-7P  
875900-27-9P 875900-30-4P 875900-33-7P  
875900-35-9P 875900-37-1P 875900-39-3P  
875900-41-7P 875900-43-9P 875900-69-9P  
875900-71-3P 875900-73-5P 875900-75-7P  
875900-77-9P 875900-79-1P 875900-81-5P  
875900-83-7P 875900-85-9P 875900-87-1P  
875900-89-3P 875900-91-7P

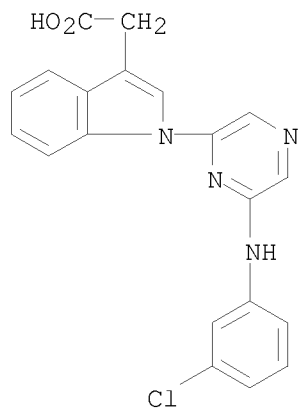
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrazines for treatment of nephritis)

RN 875900-01-9 CAPLUS

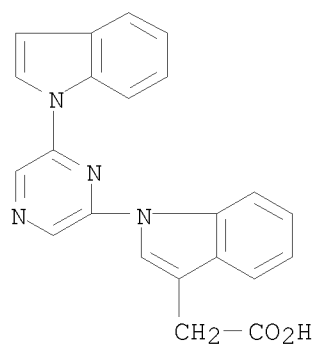
CN 1H-Indole-3-acetic acid, 1-[6-[(3-chlorophenyl)amino]-2-pyrazinyl]- (CA INDEX NAME)

10581412



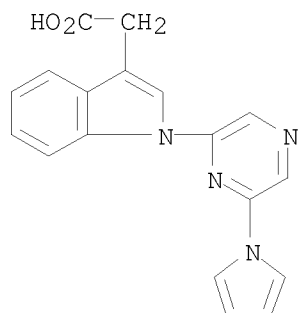
RN 875900-03-1 CAPLUS

CN 1H-Indole-3-acetic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)



RN 875900-05-3 CAPLUS

CN 1H-Indole-3-acetic acid, 1-[6-(1H-pyrrol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)

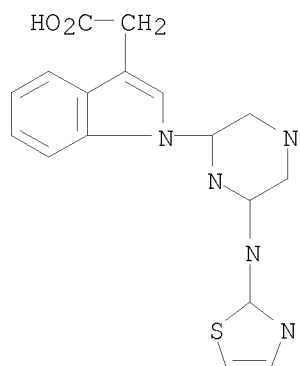


RN 875900-07-5 CAPLUS

CN 1H-Indole-3-acetic acid, 1-[6-(2-thiazolylamino)-2-pyrazinyl]- (CA INDEX NAME)



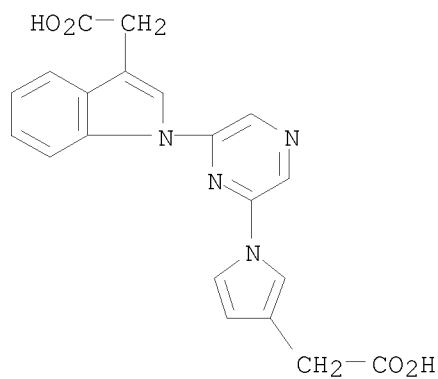
10581412



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

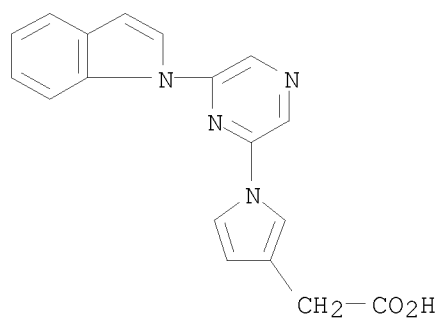
RN 875900-12-2 CAPLUS

CN 1H-Indole-3-acetic acid, 1-[6-[3-(carboxymethyl)-1H-pyrrol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 875900-14-4 CAPLUS

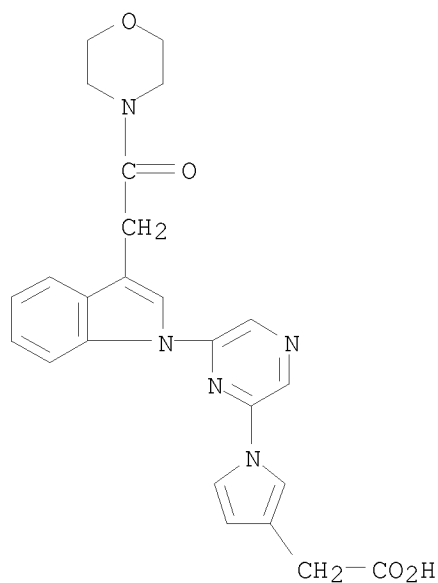
CN 1H-Pyrrole-3-acetic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)



RN 875900-21-3 CAPLUS

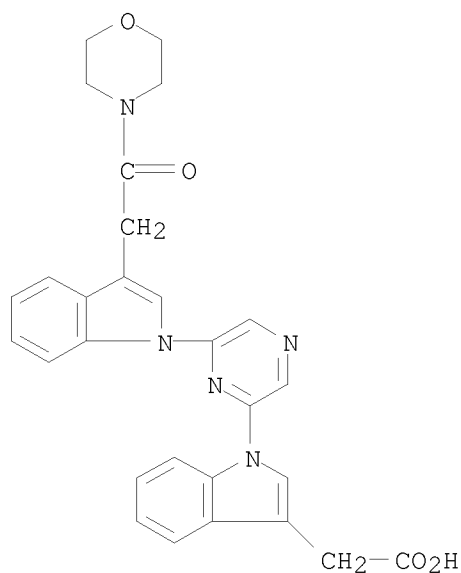
10581412

CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-[2-(4-morpholinyl)-2-oxoethyl]-1H-indol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 875900-23-5 CAPLUS

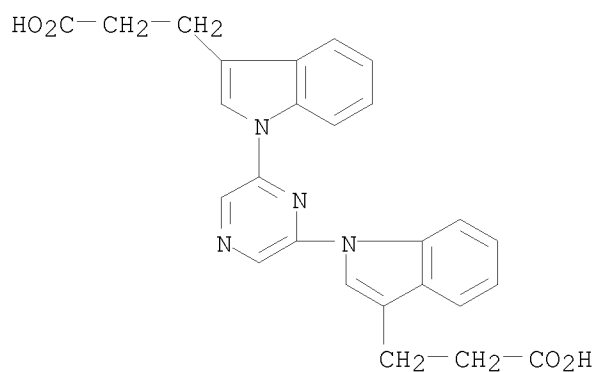
CN 1H-Indole-3-acetic acid, 1-[6-[3-[2-(4-morpholinyl)-2-oxoethyl]-1H-indol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 875900-25-7 CAPLUS

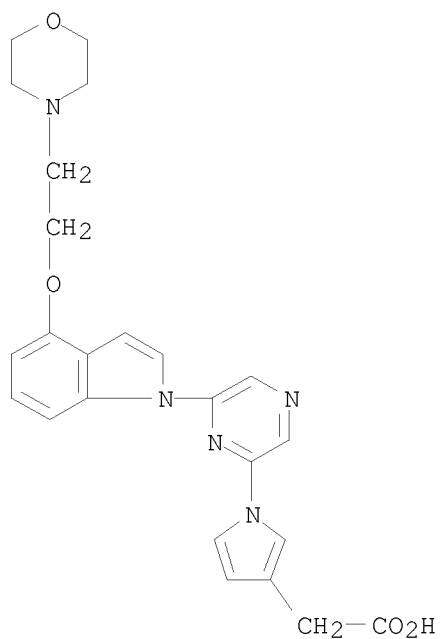
CN 1H-Indole-3-propanoic acid, 1,1'-(2,6-pyrazinediyl)bis- (CA INDEX NAME)

10581412



RN 875900-27-9 CAPLUS

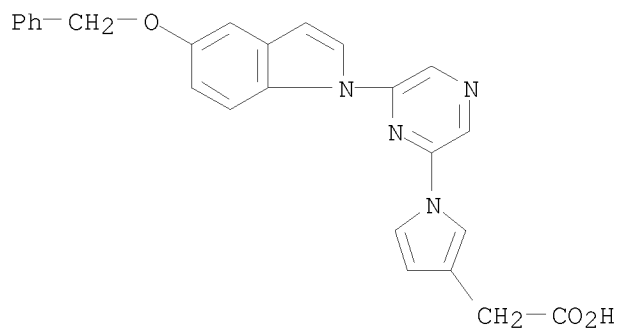
CN 1H-Pyrrole-3-acetic acid, 1-[6-[4-[2-(4-morpholinyl)ethoxy]-1H-indol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



RN 875900-30-4 CAPLUS

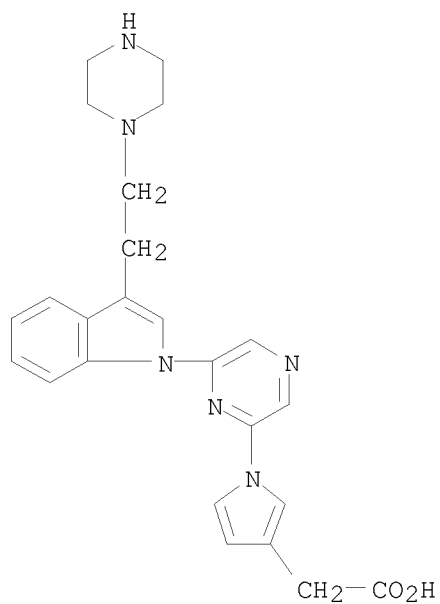
CN 1H-Pyrrole-3-acetic acid, 1-[6-[5-(phenylmethoxy)-1H-indol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412



RN 875900-33-7 CAPLUS

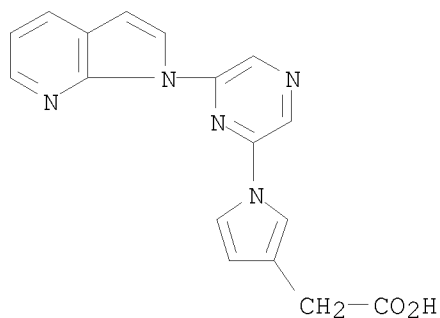
CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-[2-(1-piperazinyl)ethyl]-1H-indol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



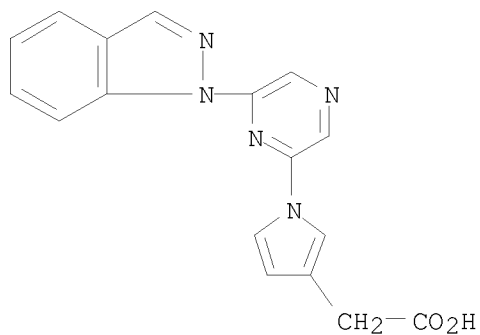
RN 875900-35-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(1H-pyrrolo[2,3-b]pyridin-1-yl)-2-pyrazinyl]- (CA INDEX NAME)

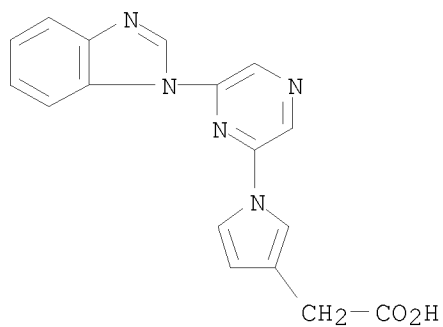
10581412



RN 875900-37-1 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-(1H-indazol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)

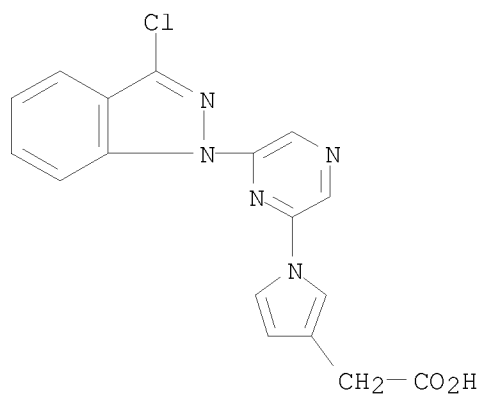


RN 875900-39-3 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-(1H-benzimidazol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)



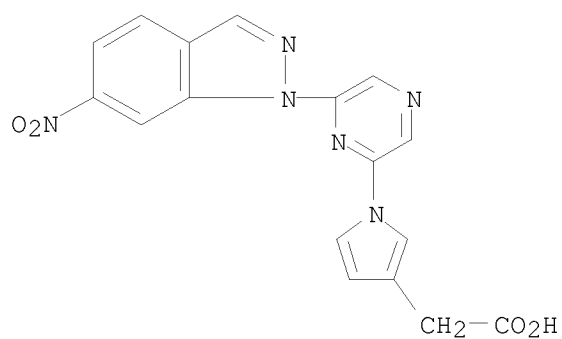
RN 875900-41-7 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-(3-chloro-1H-indazol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)

10581412



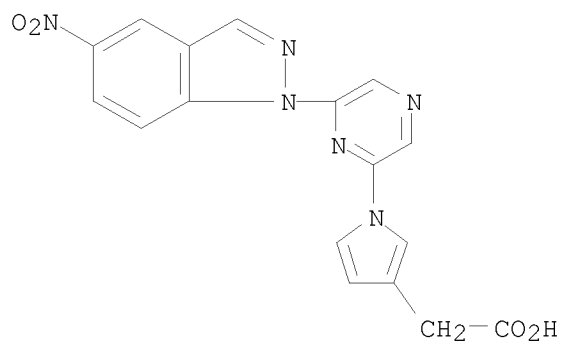
RN 875900-43-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(6-nitro-1H-indazol-1-yl)-2-pyrazinyl]-  
(CA INDEX NAME)



RN 875900-69-9 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(5-nitro-1H-indazol-1-yl)-2-pyrazinyl]-  
(CA INDEX NAME)



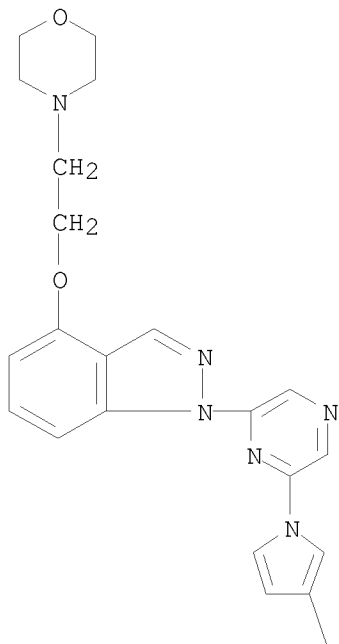
RN 875900-71-3 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-[4-[2-(4-morpholinyl)ethoxy]-1H-indazol-1-yl]-2-pyrazinyl]-

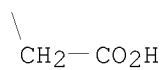
10581412

yl]-2-pyrazinyl]- (CA INDEX NAME)

PAGE 1-A



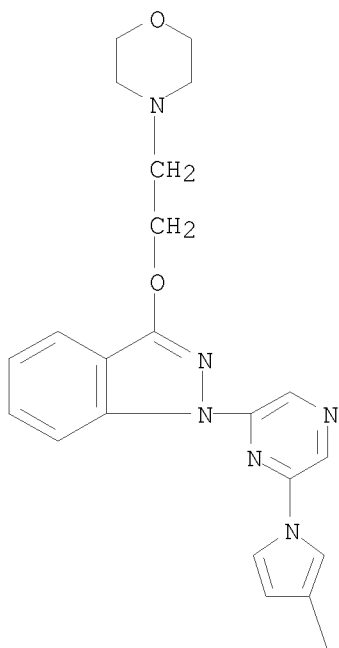
PAGE 2-A



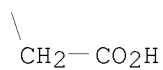
RN 875900-73-5 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-[2-(4-morpholinyl)ethoxy]-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)

10581412

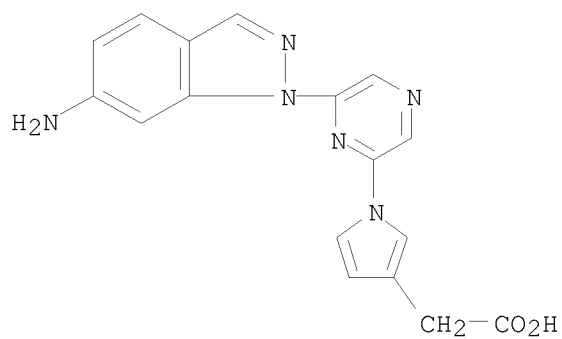
PAGE 1-A



PAGE 2-A



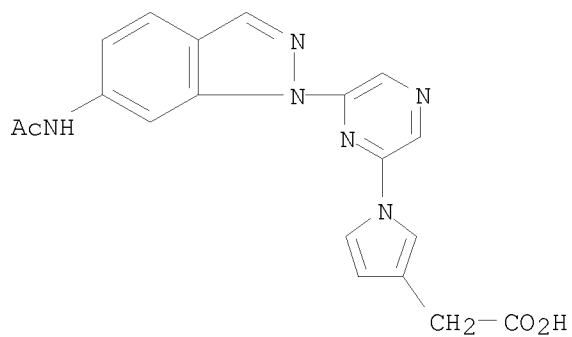
RN 875900-75-7 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-(6-amino-1H-indazol-1-yl)-2-pyrazinyl]-  
(CA INDEX NAME)



RN 875900-77-9 CAPLUS  
CN 1H-Pyrrole-3-acetic acid, 1-[6-[6-(acetylamino)-1H-indazol-1-yl]-2-pyrazinyl]-  
(CA INDEX NAME)

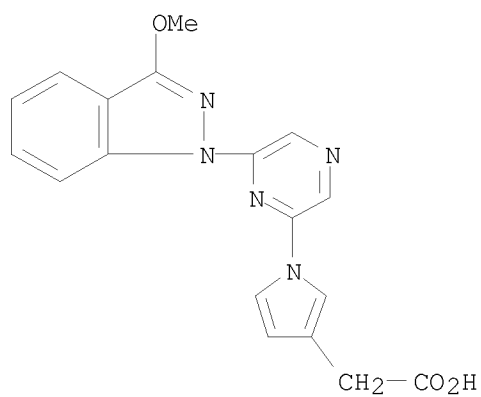


10581412



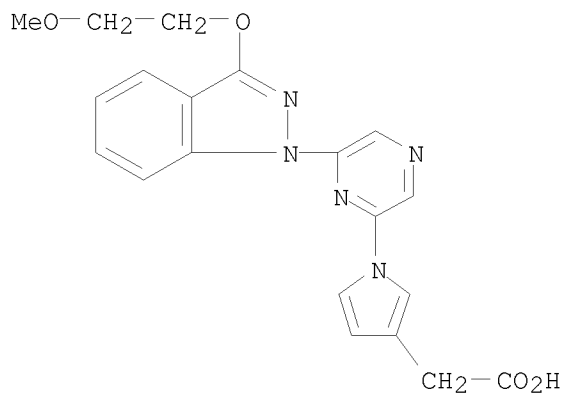
RN 875900-79-1 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(3-methoxy-1H-indazol-1-yl)-2-pyrazinyl]-  
(CA INDEX NAME)



RN 875900-81-5 CAPLUS

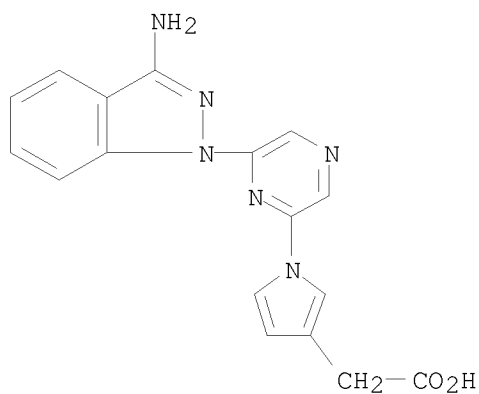
CN 1H-Pyrrole-3-acetic acid, 1-[6-[3-(2-methoxyethoxy)-1H-indazol-1-yl]-2-pyrazinyl]- (CA INDEX NAME)



10581412

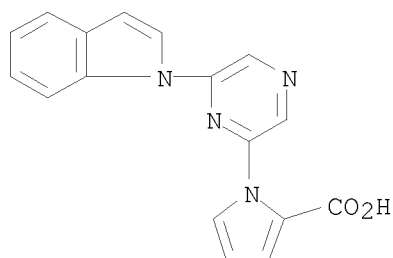
RN 875900-83-7 CAPLUS

CN 1H-Pyrrole-3-acetic acid, 1-[6-(3-amino-1H-indazol-1-yl)-2-pyrazinyl]-  
(CA INDEX NAME)



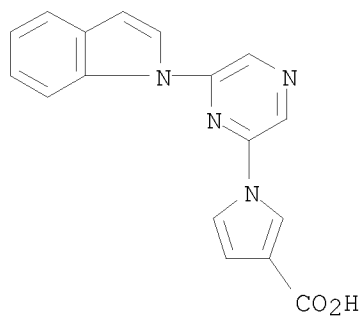
RN 875900-85-9 CAPLUS

CN 1H-Pyrrole-2-carboxylic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA  
INDEX NAME)



RN 875900-87-1 CAPLUS

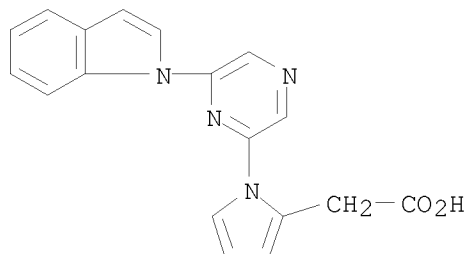
CN 1H-Pyrrole-3-carboxylic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA  
INDEX NAME)



RN 875900-89-3 CAPLUS

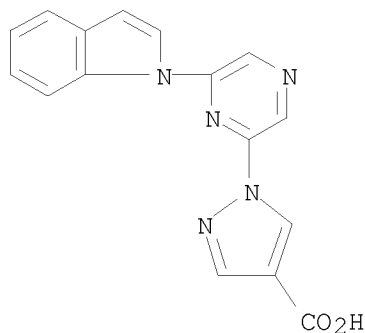
10581412

CN 1H-Pyrrole-2-acetic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)

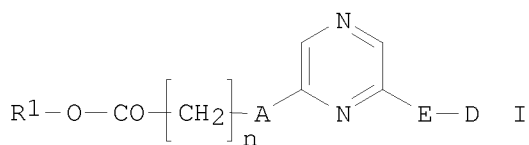


RN 875900-91-7 CAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1-[6-(1H-indol-1-yl)-2-pyrazinyl]- (CA INDEX NAME)



GI



AB Pyrazines I [ $n = 0-2$ ;  $R_1 = H$ , C1-3 linear alkyl; A = indol-1-yl, pyrroled-1-yl, furand-1-yl, thiophen-1-yl, (iso)thiazol-1-yl, triazol-1-yl, etc.; E = none, NH; when E = NH, then D = thiazol-1-yl, (un)substituted Ph; when E = none, then D = (2-phenoxy)phenyl, naphthyl, (iso)quinolyl, (7-aza)indolyl, benzofuranyl, benzothienyl, pyrrolyl, (iso)thiazolyl, etc.], their derivs., or their pharmacol. acceptable salts are prepared. The compds. are useful for treatment of acute or chronic glomerulonephritis, mesangial proliferative glomerulonephritis, IgA nephropathy, minimal change nephrotic syndrome, membranoproliferative glomerulonephritis, and lupus nephritis. Thus, Et indole-3-acetate was condensed with 2,6-diiodopyrazine and the product was hydrolyzed to give 2-[1-[6-[3-(carboxymethyl)indolyl]pyrazin-2-yl]indol-3-yl]acetic acid,

10581412

which at 50 mg/kg i.p. showed efficacy in anti-GBM nephritis in rats without adversely affecting the body weight nor organs.

L4 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:638866 CAPLUS

DOCUMENT NUMBER: 143:153403

TITLE: Preparation of benzimidazolylazines and related compounds as selective JAK3 kinase inhibitors

INVENTOR(S): Styles, Michelle Leanne; Zeng, Jun; Treutlein, Herbert Rudolf; Wilks, Andrew Frederick; Kling, Marcel Robert; Bu, Xianying; Burns, Christopher John

PATENT ASSIGNEE(S): Cytopia Research Pty. Ltd., Australia

SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066156	A1	20050721	WO 2005-AU22	20050112
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005203919	A1	20050721	AU 2005-203919	20050112
CA 2545427	A1	20050721	CA 2005-2545427	20050112
EP 1704145	A1	20060927	EP 2005-700054	20050112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
GB 2424882	A	20061011	GB 2006-12225	20050112
GB 2424882	B	20080806		
CN 1906190	A	20070131	CN 2005-80001563	20050112
BR 2005006817	A	20070529	BR 2005-6817	20050112
GB 2432834	A	20070606	GB 2007-4098	20050112
JP 2007517807	T	20070705	JP 2006-548036	20050112
IN 2006KN00845	A	20070413	IN 2006-KN845	20060406
KR 2006126983	A	20061211	KR 2006-711057	20060605
MX 2006007640	A	20070417	MX 2006-7640	20060630
US 20080207613	A1	20080828	US 2006-585916	20060711
PRIORITY APPLN. INFO.:			AU 2004-900103	A 20040112
			GB 2006-12225	A3 20050112
			WO 2005-AU22	W 20050112

OTHER SOURCE(S): CASREACT 143:153403; MARPAT 143:153403

IT 860293-18-1P 860300-29-4P 860300-30-7P  
860300-31-8P 860300-32-9P 860300-33-0P  
860300-35-2P 860300-37-4P 860300-38-5P  
860300-39-6P 860300-40-9P 860300-43-2P  
860300-45-4P 860300-46-5P 860300-47-6P  
860300-49-8P 860300-50-1P 860300-51-2P  
860300-52-3P 860300-53-4P 860300-54-5P  
860300-55-6P 860300-56-7P 860300-57-8P

10581412

860300-58-9P 860300-59-0P 860300-60-3P  
860300-61-4P 860300-62-5P 860300-63-6P  
860300-67-0P 860300-68-1P 860300-69-2P  
860300-72-7P 860300-76-1P 860300-78-3P  
860300-80-7P 860300-81-8P 860300-83-0P  
860300-85-2P 860300-87-4P 860300-96-5P  
860300-99-8P 860301-00-4P 860301-03-7P  
860301-05-9P 860301-11-7P 860301-12-8P  
860301-13-9P 860301-15-1P 860301-19-5P  
860301-20-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

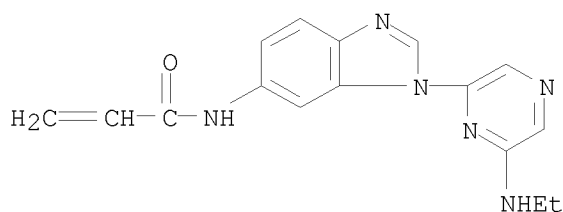
(claimed compound; preparation of benzimidazolylazines and related compds.

as

selective JAK3 kinase inhibitors)

RN 860293-18-1 CAPLUS

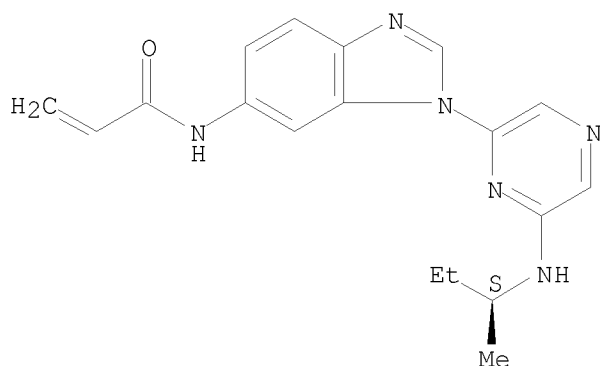
CN 2-Propenamide, N-[1-[6-(ethylamino)-2-pyrazinyl]-1H-benzimidazol-6-yl]-  
(CA INDEX NAME)



RN 860300-29-4 CAPLUS

CN 2-Propenamide, N-[1-[6-[[ (1S)-1-methylpropyl]amino]-2-pyrazinyl]-1H-  
benzimidazol-6-yl]- (CA INDEX NAME)

Absolute stereochemistry.

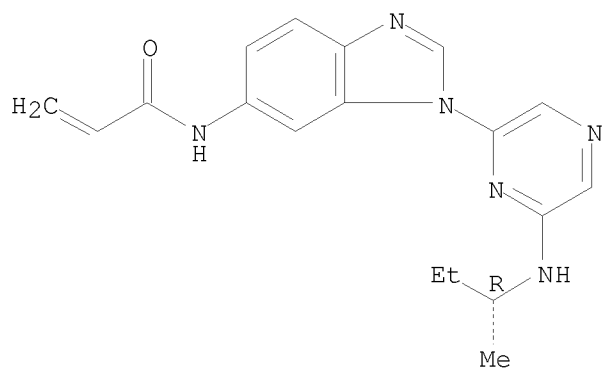


RN 860300-30-7 CAPLUS

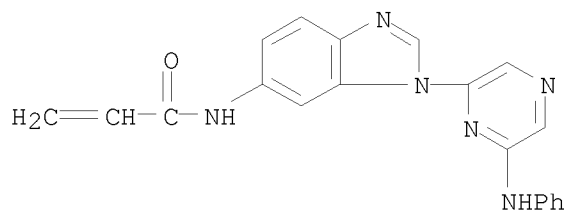
CN 2-Propenamide, N-[1-[6-[[ (1R)-1-methylpropyl]amino]-2-pyrazinyl]-1H-  
benzimidazol-6-yl]- (CA INDEX NAME)

Absolute stereochemistry.

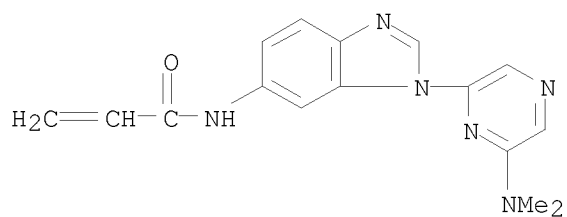
10581412



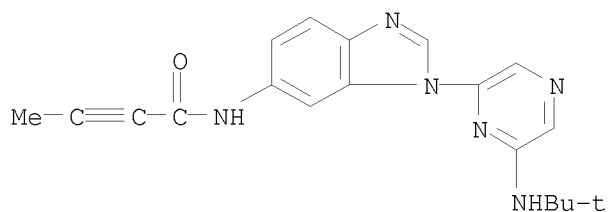
RN 860300-31-8 CAPLUS  
CN 2-Propenamide, N-[1-[6-(phenylamino)-2-pyrazinyl]-1H-benzimidazol-6-yl]-  
(CA INDEX NAME)



RN 860300-32-9 CAPLUS  
CN 2-Propenamide, N-[1-[6-(dimethylamino)-2-pyrazinyl]-1H-benzimidazol-6-yl]-  
(CA INDEX NAME)



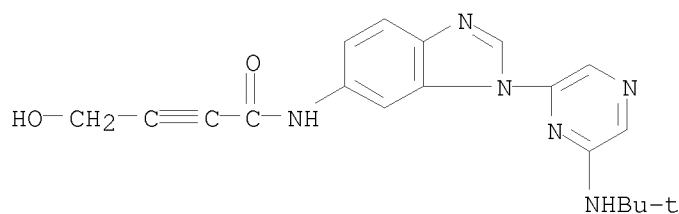
RN 860300-33-0 CAPLUS  
CN 2-Butynamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-  
(CA INDEX NAME)



10581412

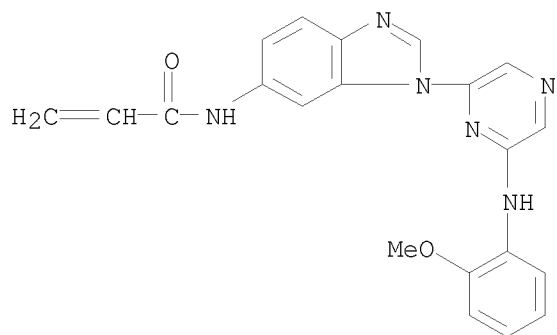
RN 860300-35-2 CAPLUS

CN 2-Butynamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-4-hydroxy- (CA INDEX NAME)



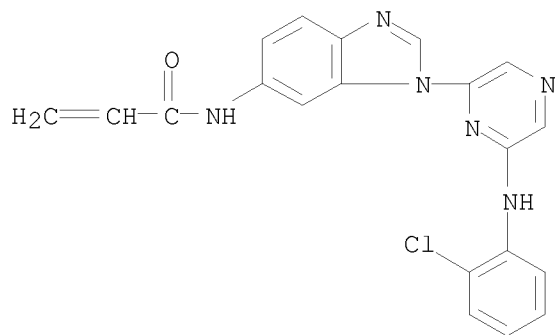
RN 860300-37-4 CAPLUS

CN 2-Propenamide, N-[1-[6-[(2-methoxyphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860300-38-5 CAPLUS

CN 2-Propenamide, N-[1-[6-[(2-chlorophenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

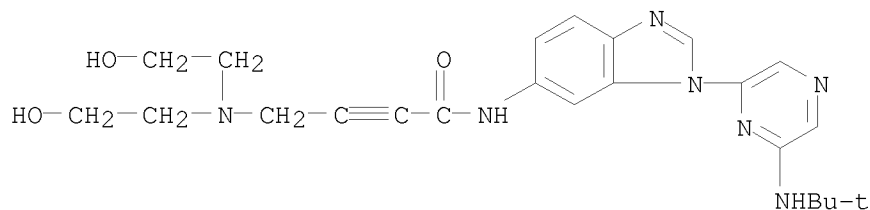


RN 860300-39-6 CAPLUS

CN 2-Butynamide, 4-[bis(2-hydroxyethyl)amino]-N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

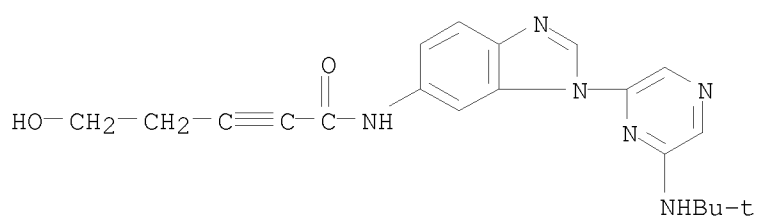


10581412



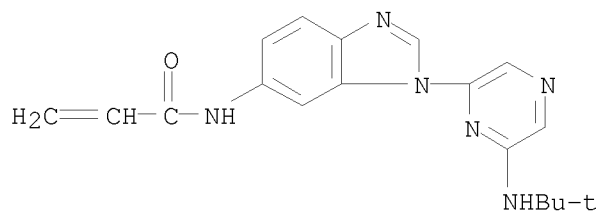
RN 860300-40-9 CAPLUS

CN 2-Pentynamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-5-hydroxy- (CA INDEX NAME)



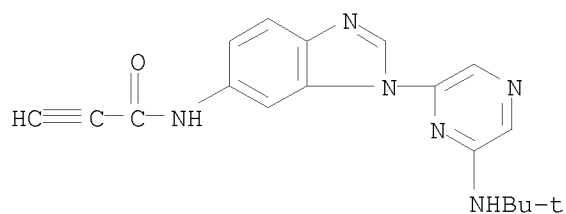
RN 860300-43-2 CAPLUS

CN 2-Propenamamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860300-45-4 CAPLUS

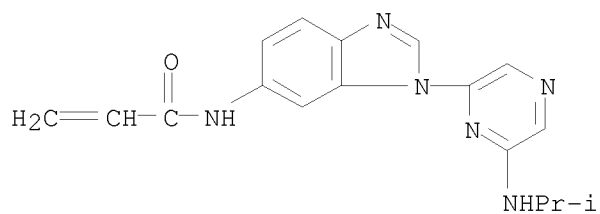
CN 2-Propynamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860300-46-5 CAPLUS

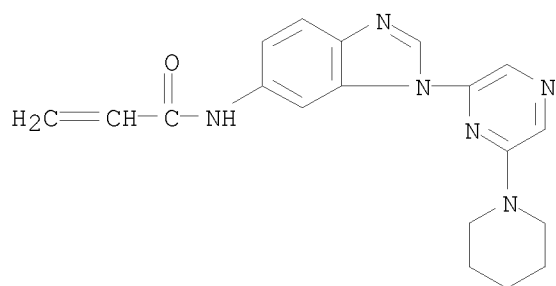
CN 2-Propenamamide, N-[1-[6-[(1-methylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

10581412



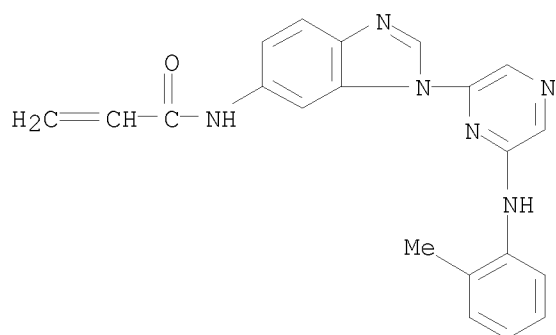
RN 860300-47-6 CAPLUS

CN 2-Propenamide, N-[1-[6-(1-piperidinyl)-2-pyrazinyl]-1H-benzimidazol-6-yl]-  
(CA INDEX NAME)



RN 860300-49-8 CAPLUS

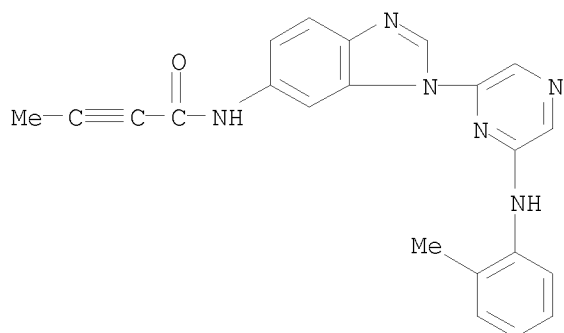
CN 2-Propenamide, N-[1-[6-[(2-methylphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-  
(CA INDEX NAME)



RN 860300-50-1 CAPLUS

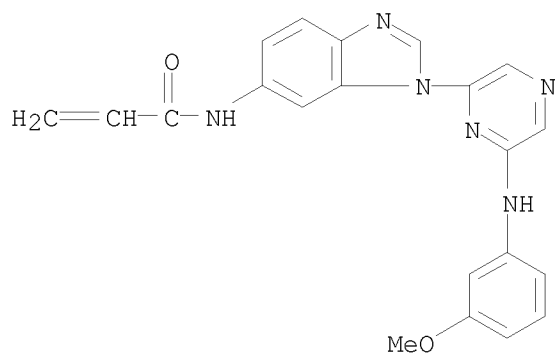
CN 2-Butynamide, N-[1-[6-[(2-methylphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-  
(CA INDEX NAME)

10581412



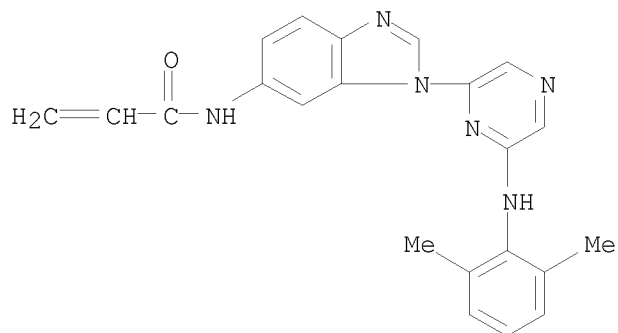
RN 860300-51-2 CAPLUS

CN 2-Propenamide, N-[1-[6-[(3-methoxyphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860300-52-3 CAPLUS

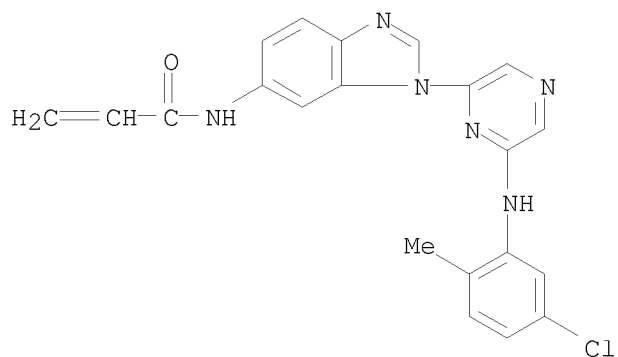
CN 2-Propenamide, N-[1-[6-[(2,6-dimethylphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860300-53-4 CAPLUS

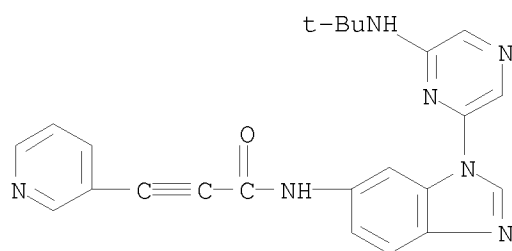
CN 2-Propenamide, N-[1-[6-[(5-chloro-2-methylphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

10581412



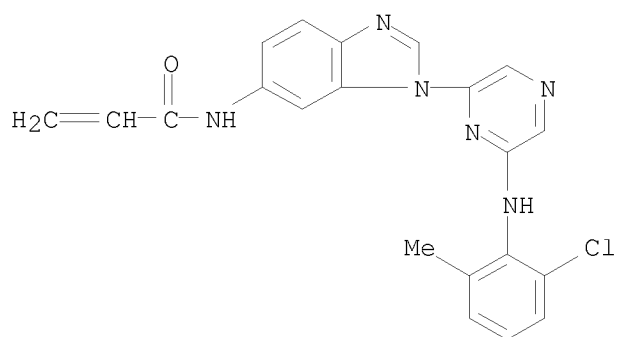
RN 860300-54-5 CAPLUS

CN 2-Propynamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-3-(3-pyridinyl)- (CA INDEX NAME)



RN 860300-55-6 CAPLUS

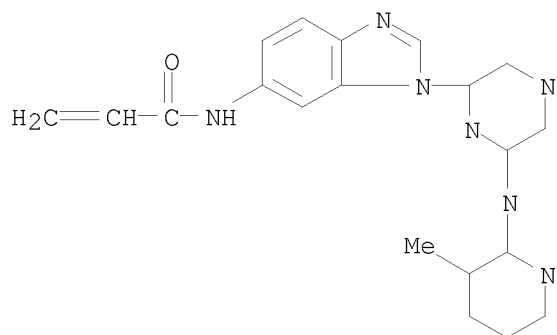
CN 2-Propenamide, N-[1-[6-[(2-chloro-6-methylphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860300-56-7 CAPLUS

CN 2-Propenamide, N-[1-[6-[(3-methyl-2-pyridinyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

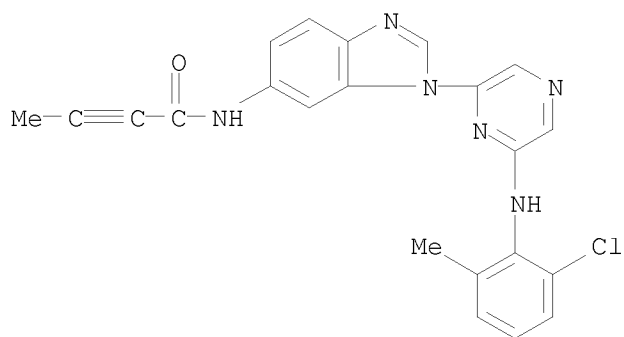
10581412



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

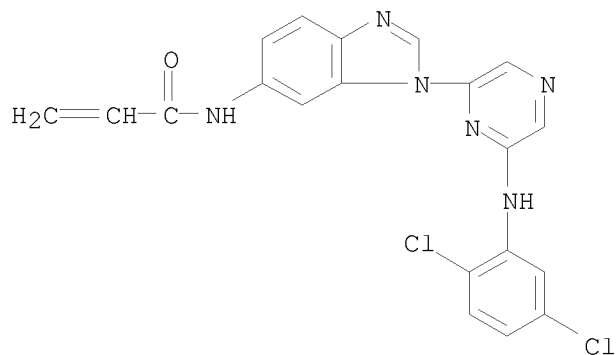
RN 860300-57-8 CAPLUS

CN 2-Butynamide, N-[1-[6-[(2-chloro-6-methylphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860300-58-9 CAPLUS

CN 2-Propenamide, N-[1-[6-[(2,5-dichlorophenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

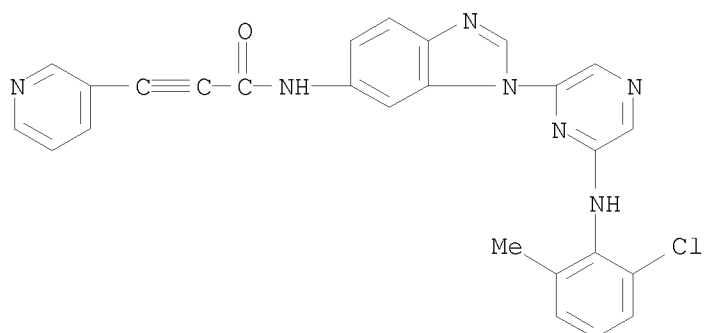


RN 860300-59-0 CAPLUS

CN 2-Propynamide, N-[1-[6-[(2-chloro-6-methylphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

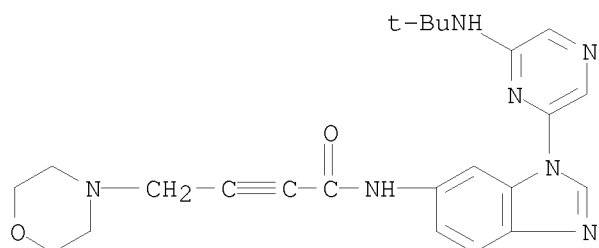
10581412

benzimidazol-6-yl]-3-(3-pyridinyl)- (CA INDEX NAME)



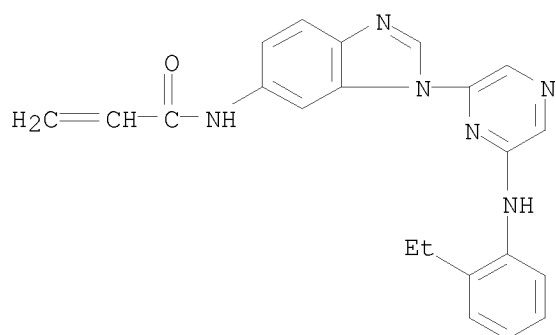
RN 860300-60-3 CAPLUS

CN 2-Butynamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-4-(4-morpholinyl)- (CA INDEX NAME)



RN 860300-61-4 CAPLUS

CN 2-Propenamide, N-[1-[6-[(2-ethylphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

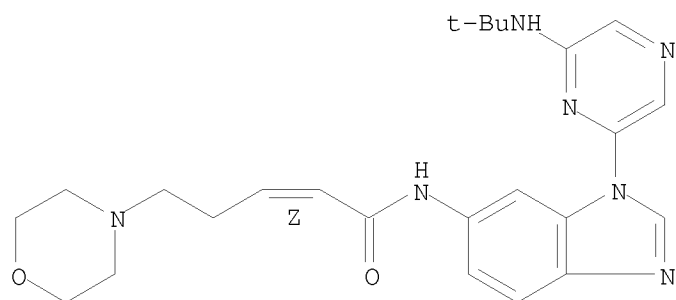


RN 860300-62-5 CAPLUS

CN 2-Pentenamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-5-(4-morpholinyl)-, (2Z)- (CA INDEX NAME)

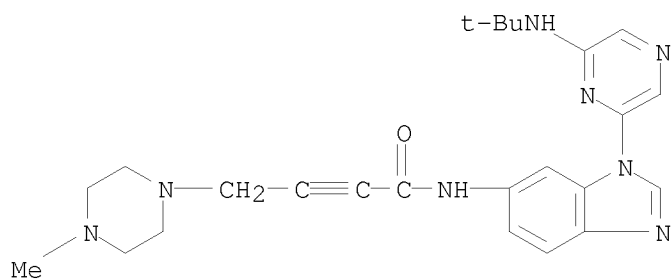
Double bond geometry as shown.

10581412



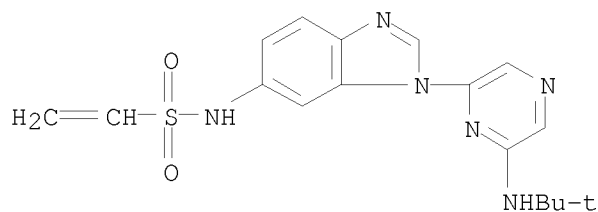
RN 860300-63-6 CAPLUS

CN 2-Butynamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-4-(4-methyl-1-piperazinyl)- (CA INDEX NAME)



RN 860300-67-0 CAPLUS

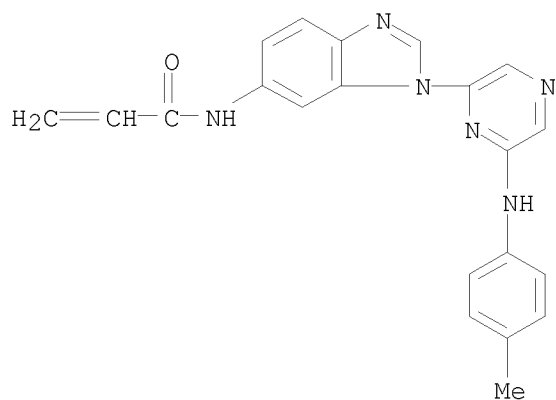
CN Ethenesulfonamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



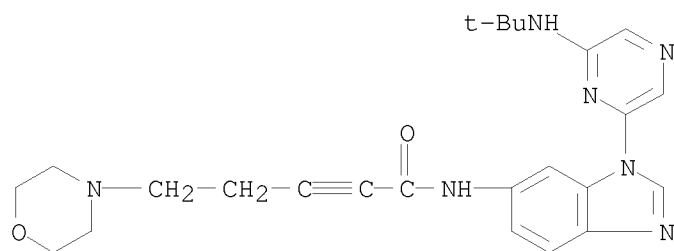
RN 860300-68-1 CAPLUS

CN 2-Propenamide, N-[1-[6-[(4-methylphenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

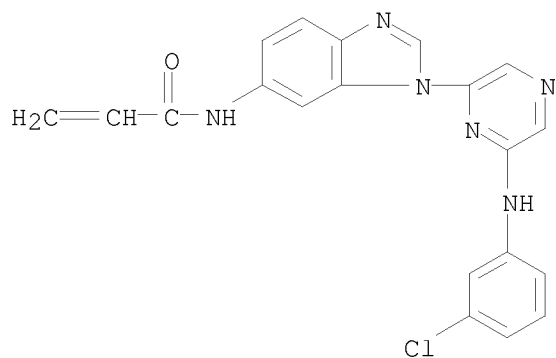
10581412



RN 860300-69-2 CAPLUS  
CN 2-Pentynamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-5-(4-morpholinyl)- (CA INDEX NAME)



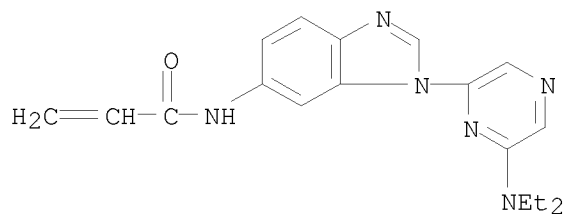
RN 860300-72-7 CAPLUS  
CN 2-Propenamide, N-[1-[6-[(3-chlorophenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860300-76-1 CAPLUS  
CN 2-Propenamide, N-[1-[6-(diethylamino)-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

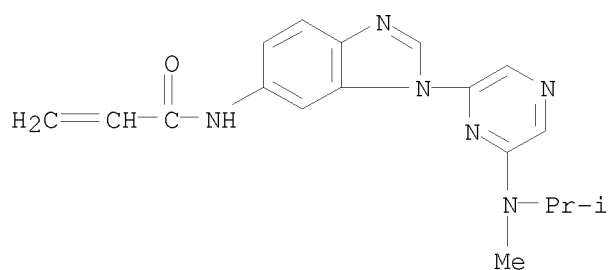


10581412



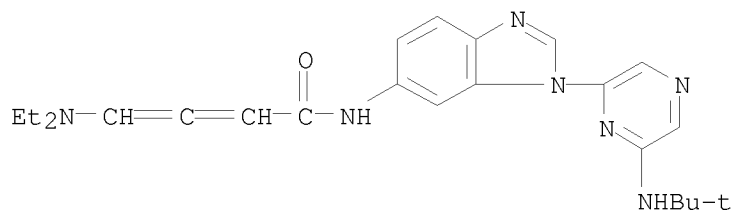
RN 860300-78-3 CAPLUS

CN 2-Propenamide, N-[1-[6-[methyl(1-methylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



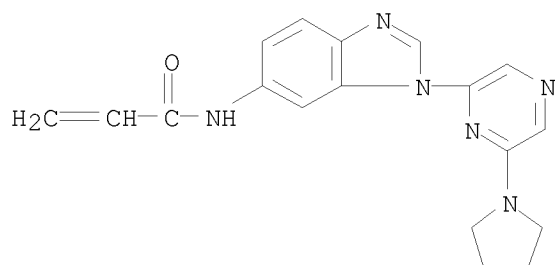
RN 860300-80-7 CAPLUS

CN 2,3-Butadienamide, 4-(diethylamino)-N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860300-81-8 CAPLUS

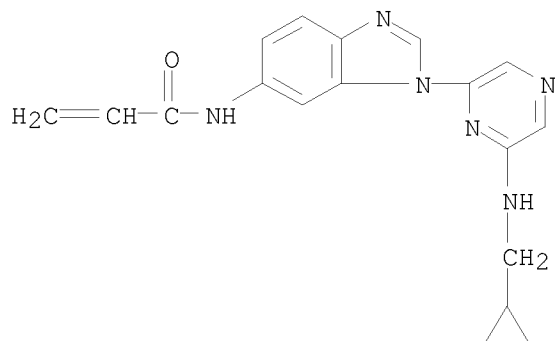
CN 2-Propenamide, N-[1-[6-(1-pyrrolidinyl)-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



10581412

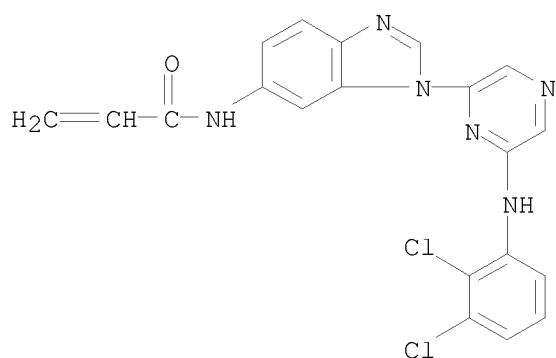
RN 860300-83-0 CAPLUS

CN 2-Propenamide, N-[1-[6-[(cyclopropylmethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



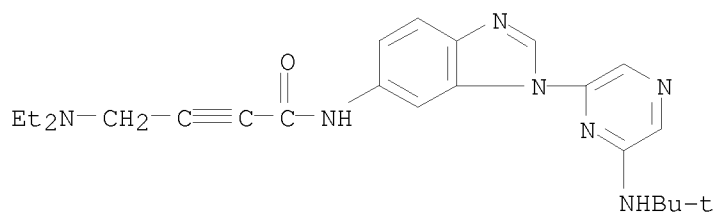
RN 860300-85-2 CAPLUS

CN 2-Propenamide, N-[1-[6-[(2,3-dichlorophenyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860300-87-4 CAPLUS

CN 2-Butynamide, 4-(diethylamino)-N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

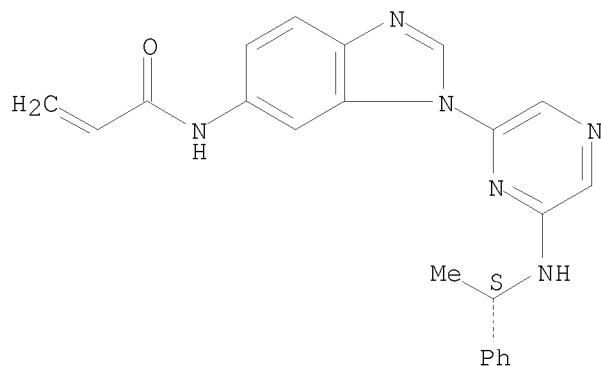


RN 860300-96-5 CAPLUS

CN 2-Propenamide, N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

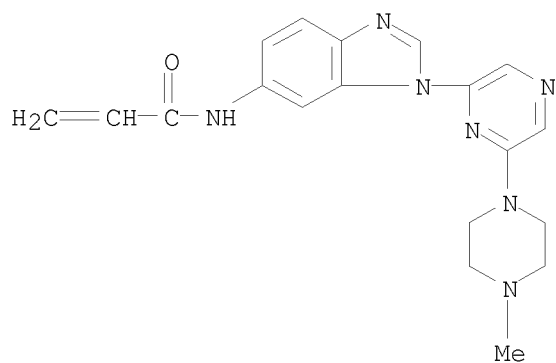
10581412

Absolute stereochemistry.



RN 860300-99-8 CAPLUS

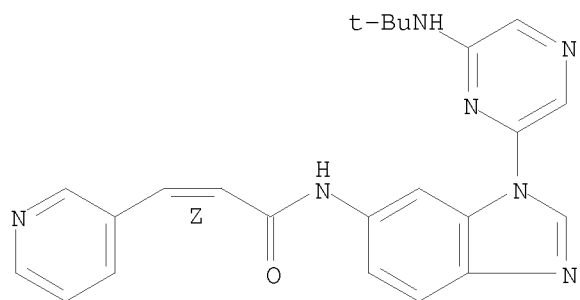
CN 2-Propenamide, N-[1-[6-(4-methyl-1-piperazinyl)-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860301-00-4 CAPLUS

CN 2-Propenamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-3-(3-pyridinyl)-, (2Z)- (CA INDEX NAME)

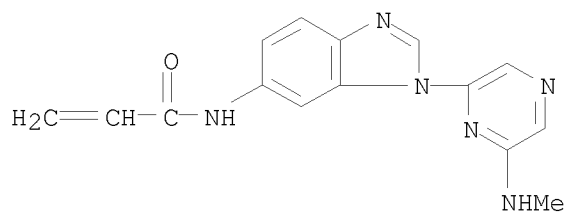
Double bond geometry as shown.



RN 860301-03-7 CAPLUS

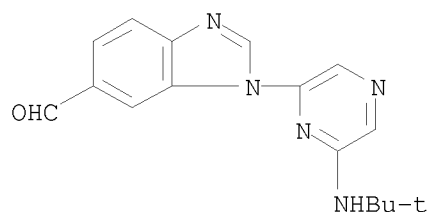
10581412

CN 2-Propenamide, N-[1-[6-(methylamino)-2-pyrazinyl]-1H-benzimidazol-6-yl]-  
(CA INDEX NAME)



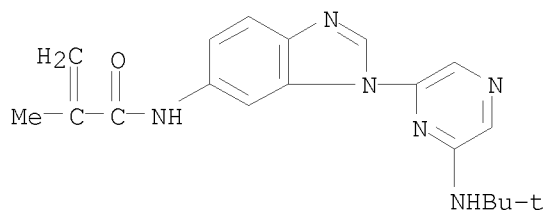
RN 860301-05-9 CAPLUS

CN 1H-Benzimidazole-6-carboxaldehyde,  
1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]- (CA INDEX NAME)



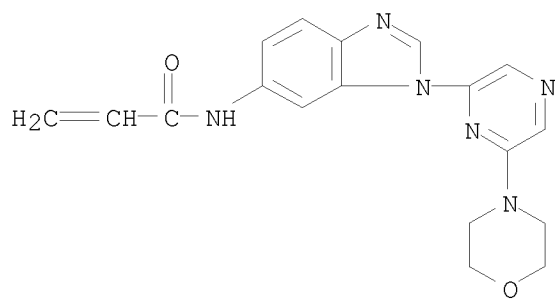
RN 860301-11-7 CAPLUS

CN 2-Propenamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-  
benzimidazol-6-yl]-2-methyl- (CA INDEX NAME)



RN 860301-12-8 CAPLUS

CN 2-Propenamide, N-[1-[6-(4-morpholinyl)-2-pyrazinyl]-1H-benzimidazol-6-yl]-  
(CA INDEX NAME)

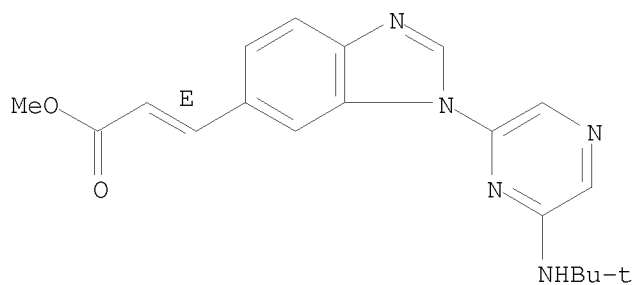


10581412

RN 860301-13-9 CAPLUS

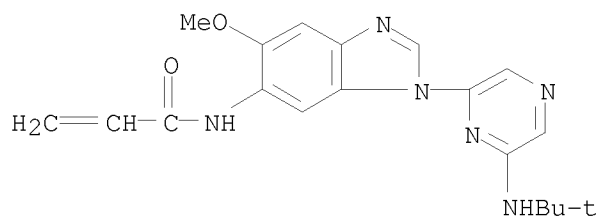
CN 2-Propenoic acid, 3-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-, methyl ester, (2E)- (CA INDEX NAME)

Double bond geometry as shown.



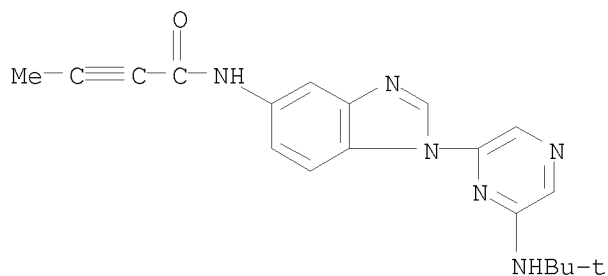
RN 860301-15-1 CAPLUS

CN 2-Propenamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-5-methoxy-1H-benzimidazol-6-yl]- (CA INDEX NAME)



RN 860301-19-5 CAPLUS

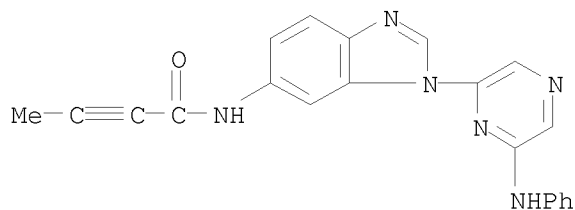
CN 2-Butynamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)



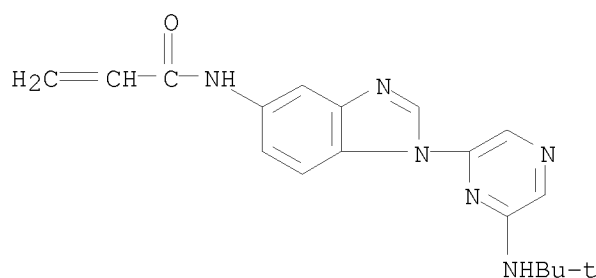
RN 860301-20-8 CAPLUS

CN 2-Butynamide, N-[1-[6-(phenylamino)-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

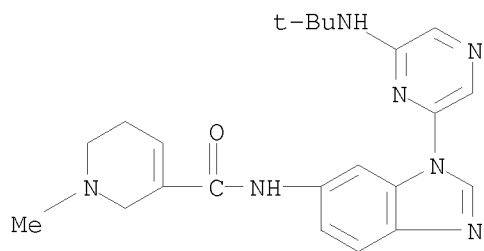
10581412



IT 860301-40-2P 860301-42-4P 860301-43-5P  
860301-44-6P 860301-45-7P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(preparation of benzimidazolylazines and related compds. as selective JAK3  
kinase inhibitors)  
RN 860301-40-2 CAPLUS  
CN 2-Propenamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-  
benzimidazol-5-yl]- (CA INDEX NAME)

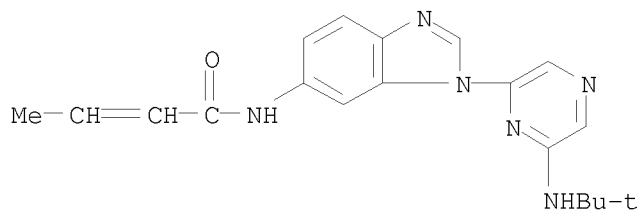


RN 860301-42-4 CAPLUS  
CN 3-Pyridinecarboxamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-  
benzimidazol-6-yl]-1,2,5,6-tetrahydro-1-methyl- (CA INDEX NAME)



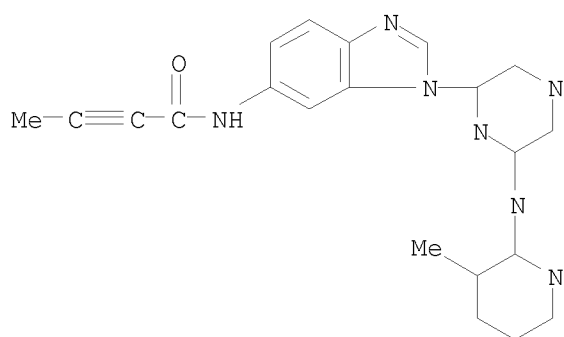
RN 860301-43-5 CAPLUS  
CN 2-Butenamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-  
benzimidazol-6-yl]- (CA INDEX NAME)

10581412



RN 860301-44-6 CAPLUS

CN 2-Butynamide, N-[1-[6-[(3-methyl-2-pyridinyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

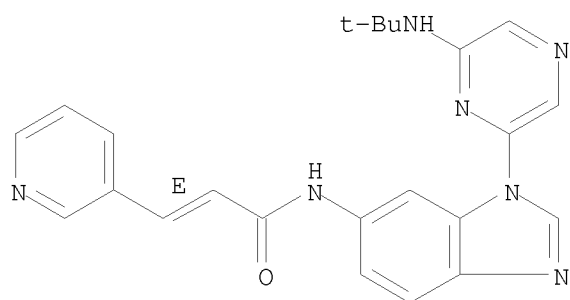


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 860301-45-7 CAPLUS

CN 2-Propenamide, N-[1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-3-(3-pyridinyl)-, (2E)- (CA INDEX NAME)

Double bond geometry as shown.



IT 629669-63-2P 629669-65-4P 860301-22-0P

860301-23-1P 860301-26-4P 860301-27-5P

860301-28-6P 860301-30-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

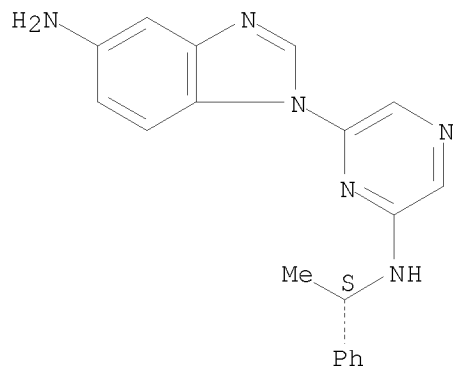
(preparation of benzimidazolylazines and related compds. as selective JAK3 kinase inhibitors)

RN 629669-63-2 CAPLUS

10581412

CN 1H-Benzimidazol-5-amine, 1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-  
(CA INDEX NAME)

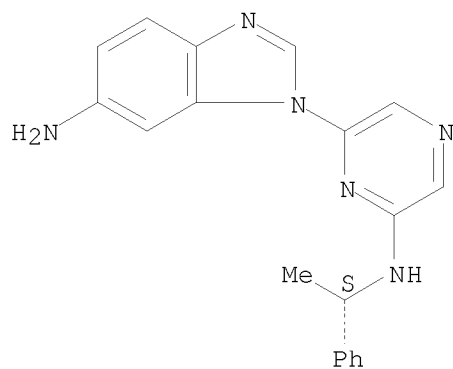
Absolute stereochemistry.



RN 629669-65-4 CAPLUS

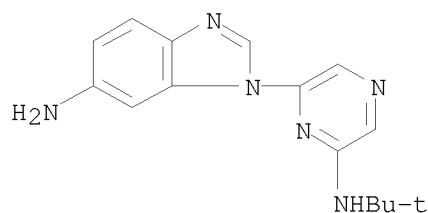
CN 1H-Benzimidazol-6-amine, 1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-  
(CA INDEX NAME)

Absolute stereochemistry.



RN 860301-22-0 CAPLUS

CN 1H-Benzimidazol-6-amine, 1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-  
(CA INDEX NAME)



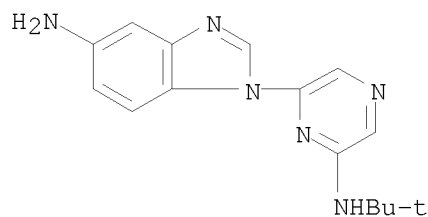
RN 860301-23-1 CAPLUS

CN 1H-Benzimidazol-5-amine, 1-[6-[(1,1-dimethylethyl)amino]-2-pyrazinyl]-



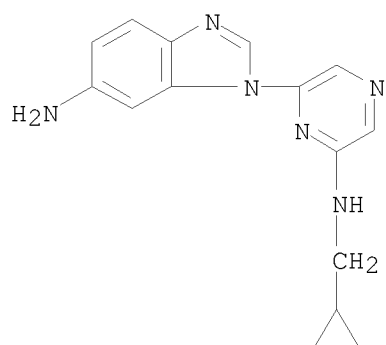
10581412

(CA INDEX NAME)



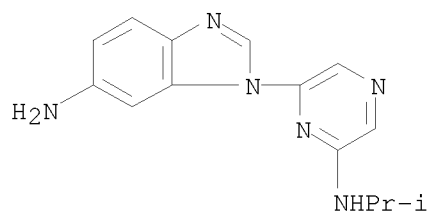
RN 860301-26-4 CAPLUS

CN 1H-Benzimidazol-6-amine, 1-[6-[(cyclopropylmethyl)amino]-2-pyrazinyl]-  
(CA INDEX NAME)



RN 860301-27-5 CAPLUS

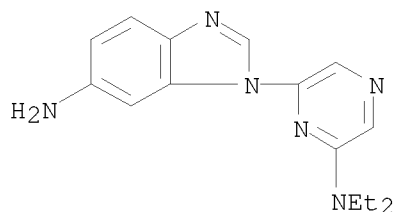
CN 1H-Benzimidazol-6-amine, 1-[6-[(1-methylethyl)amino]-2-pyrazinyl]- (CA  
INDEX NAME)



RN 860301-28-6 CAPLUS

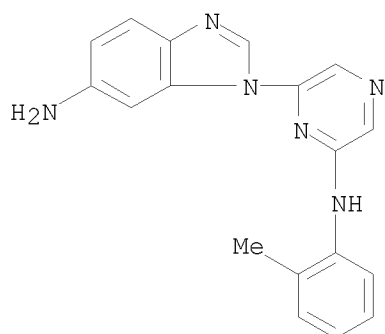
CN 1H-Benzimidazol-6-amine, 1-[6-(diethylamino)-2-pyrazinyl]- (CA INDEX  
NAME)

10581412

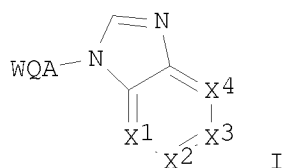


RN 860301-30-0 CAPLUS

CN 1H-Benzimidazol-6-amine, 1-[6-[(2-methylphenyl)amino]-2-pyrazinyl]- (CA INDEX NAME)



GI



AB Title compds. [I; 1 of X1-X4 = CZ, the others = CY; or 1 of X1-X4 = N, 1 = CZ, the others = CY; A = (substituted) pyridyl, pyrazinyl, pyrimidyl, triazinyl, pyridazinyl; Q = bond, halo, alkyl, O, S, SO, SO<sub>2</sub>, CO, CS; W = H, alkyl, aryl, heteroaryl, cycloalkyl, alkylaryl, alkylheteroaryl, cycloalkyl, (substituted) amino, etc.; Y = H, halo, cyano, NO<sub>2</sub>, CF<sub>3</sub>, OH, alkyl, aminoalkyl, alkoxyalkyl, alkylheteroaryl, alkylthio, etc.; Z = (CH<sub>2</sub>)<sub>n</sub>COCR<sub>9</sub>:CHR<sub>10</sub>, (CH<sub>2</sub>)<sub>n</sub>NR<sub>8</sub>COC.tplbond.CR<sub>9</sub>, etc.; n = 0-4; R<sub>8</sub> = H, alkyl; R<sub>9</sub>, R<sub>10</sub> = H, alkyl, alkylamino, alkylheteroaryl, etc.; R<sub>9</sub>R<sub>10</sub> = atoms to form a 5-8 membered ring], were prepared Thus, a mixture of 1-[6-(tert-butylamino)pyrazin-2-yl]-1H-benzimidazol-5-amine (preparation given), Et<sub>3</sub>N, EDAC.HCl, 4-(1-pyrrolidino)pyridine, and acrylic acid were stirred together for 3 days in CH<sub>2</sub>Cl<sub>2</sub> to give N-[1-[6-(tert-butylamino)pyrazin-2-yl]-1H-benzimidazol-5-yl]acrylamide. The latter gave ≥50% inhibition of JAK3 at 20 μM.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

10581412

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:523444 CAPLUS

DOCUMENT NUMBER: 143:60004

TITLE: Preparation of pyrazine derivatives as kinase inhibitors

INVENTOR(S): Burns, Christopher John; Wilks, Andrew Frederick; Bu, Xianyong

PATENT ASSIGNEE(S): Cytopia Research Pty Ltd., Australia

SOURCE: PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005054230	A1	20050616	WO 2004-AU1690	20041203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004294355	A1	20050616	AU 2004-294355	20041203
CA 2545425	A1	20050616	CA 2004-2545425	20041203
EP 1689739	A1	20060816	EP 2004-801112	20041203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
GB 2423083	A	20060816	GB 2006-11894	20041203
GB 2423083	B	20070711		
CN 1878767	A	20061213	CN 2004-80033482	20041203
BR 2004017345	A	20070313	BR 2004-17345	20041203
JP 2007513094	T	20070524	JP 2006-541751	20041203
IN 2006KN00616	A	20070727	IN 2006-KN616	20060316
MX 2006005983	A	20060907	MX 2006-5983	20060525
US 20070099935	A1	20070503	US 2006-581412	20060601
KR 2006126981	A	20061211	KR 2006-710931	20060602
PRIORITY APPLN. INFO.:			AU 2003-906686	A 20031203
			AU 2004-902060	A 20040420
			WO 2004-AU1690	W 20041203

OTHER SOURCE(S): CASREACT 143:60004; MARPAT 143:60004

IT 629669-63-2P 629669-65-4P 629670-05-9P

853887-56-6P

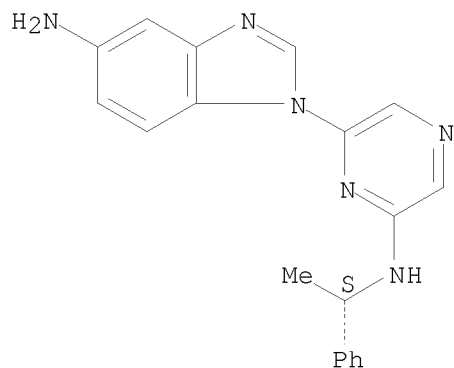
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of pyrazine derivs. as kinase inhibitors)

RN 629669-63-2 CAPLUS

CN 1H-Benzimidazol-5-amine, 1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]]-(CA INDEX NAME)

10581412

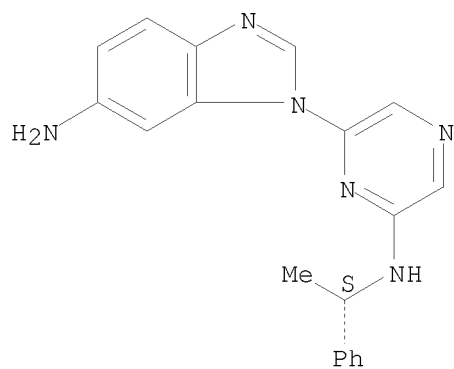
Absolute stereochemistry.



RN 629669-65-4 CAPLUS

CN 1H-Benzimidazol-6-amine, 1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]-  
(CA INDEX NAME)

Absolute stereochemistry.

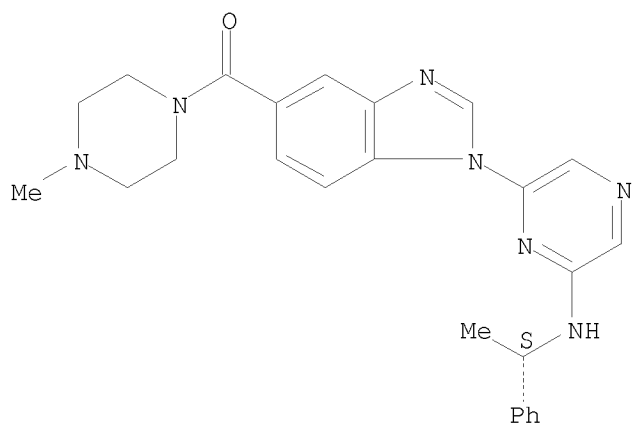


RN 629670-05-9 CAPLUS

CN Methanone, (4-methyl-1-piperazinyl)[1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

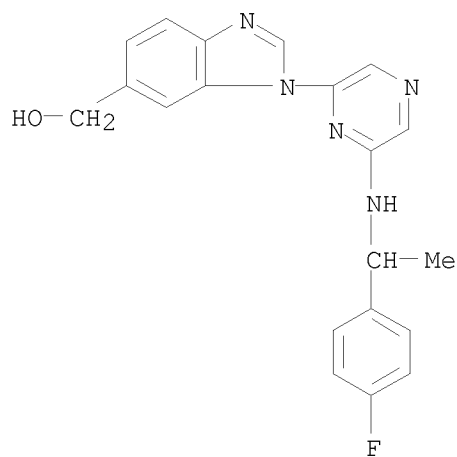
Absolute stereochemistry.

10581412



RN 853887-56-6 CAPLUS

CN 1H-Benzimidazole-6-methanol, 1-[6-[[1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)



IT	629669-29-0P	629669-36-9P	629669-40-5P
	629669-50-7P	629669-54-1P	629669-60-9P
	629669-72-3P	629669-73-4P	629669-95-0P
	629670-08-2P	629670-17-3P	853887-50-0P
	853887-51-1P	853887-52-2P	853887-53-3P
	853887-54-4P	853887-55-5P	853887-57-7P
	853887-58-8P	853887-59-9P	853887-60-2P
	853887-61-3P	853887-62-4P	853887-63-5P
	853887-64-6P	853887-65-7P	853887-66-8P
	853887-67-9P	853887-68-0P	853887-69-1P
	853887-70-4P	853887-71-5P	853887-72-6P
	853887-78-2P	853887-79-3P	853887-80-6P
	853887-81-7P	853887-82-8P	853887-83-9P
	853887-84-0P	853887-85-1P	853887-86-2P
	853887-87-3P	853887-88-4P	853887-89-5P
	853887-90-8P	853887-91-9P	853887-92-0P

10581412

853887-93-1P 853887-94-2P 853887-95-3P  
853887-96-4P 853887-97-5P 853887-98-6P  
853887-99-7P 853888-00-3P 853888-02-5P  
853888-03-6P 853888-04-7P 853888-05-8P  
853888-06-9P 853888-07-0P 853888-08-1P  
853888-09-2P 853888-10-5P 853888-12-7P  
853888-13-8P 853888-14-9P 853888-15-0P  
853888-16-1P 853888-17-2P 853888-18-3P  
853888-19-4P 853888-20-7P 853888-21-8P  
853888-22-9P 853888-23-0P 853888-24-1P  
853888-25-2P 853888-26-3P 853888-27-4P  
853888-28-5P 853888-29-6P 853888-30-9P  
853888-31-0P 853888-32-1P 853888-33-2P  
853888-34-3P 853888-35-4P 853888-37-6P  
853888-38-7P 853888-39-8P 853888-40-1P  
853888-41-2P 853888-42-3P 853888-43-4P  
853888-44-5P 853888-45-6P 853888-46-7P  
853888-47-8P 853888-48-9P 853888-49-0P  
853888-50-3P

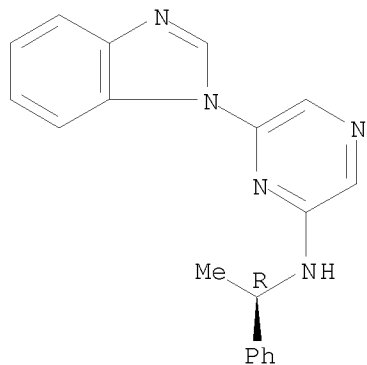
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

(preparation of pyrazine derivs. as kinase inhibitors)

RN 629669-29-0 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1R)-1-phenylethyl]- (CA  
INDEX NAME)

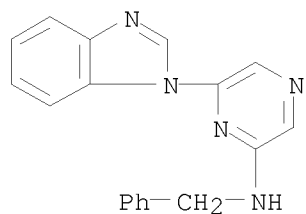
Absolute stereochemistry.



RN 629669-36-9 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-(phenylmethyl)- (CA INDEX  
NAME)

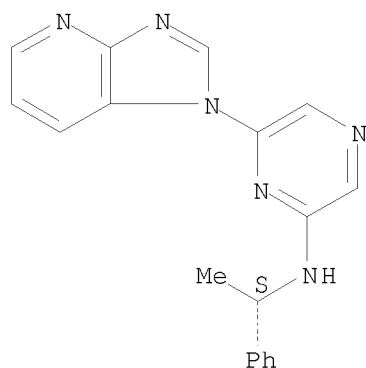
10581412



RN 629669-40-5 CAPLUS

CN 2-Pyrazinamine, 6-((1H-imidazo[4,5-b]pyridin-1-yl)-N-[(1S)-1-phenylethyl])-  
(CA INDEX NAME)

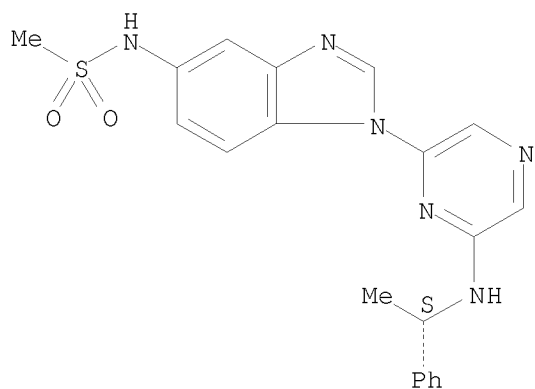
Absolute stereochemistry.



RN 629669-50-7 CAPLUS

CN Methanesulfonamide, N-[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]]-  
(CA INDEX NAME)

Absolute stereochemistry.



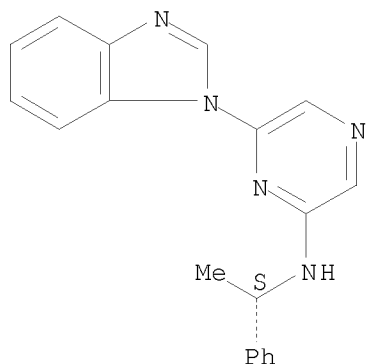
RN 629669-54-1 CAPLUS

CN 2-Pyrazinamine, 6-((1H-benzimidazol-1-yl)-N-[(1S)-1-phenylethyl])- (CA  
INDEX NAME)



10581412

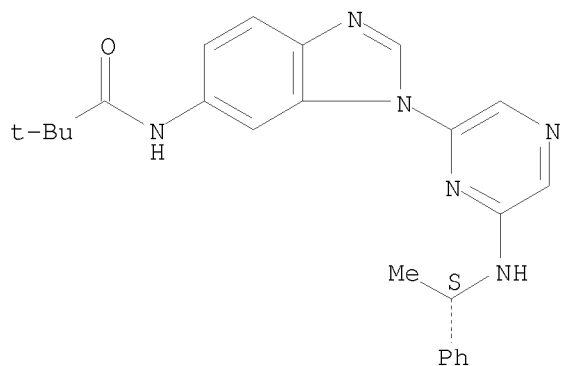
Absolute stereochemistry.



RN 629669-60-9 CAPLUS

CN Propanamide, 2,2-dimethyl-N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

Absolute stereochemistry.

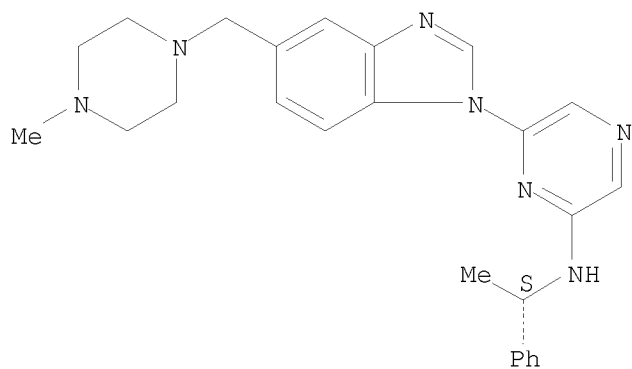


RN 629669-72-3 CAPLUS

CN 2-Pyrazinamine, 6-[5-[(4-methyl-1-piperazinyl)methyl]-1H-benzimidazol-1-yl]-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.

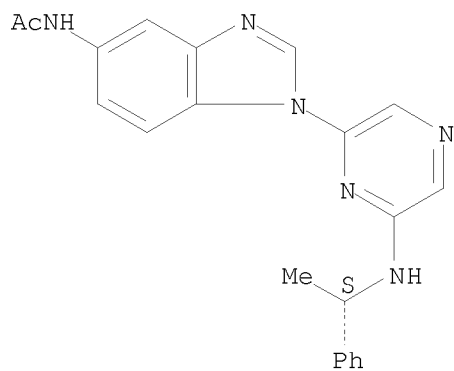
10581412



RN 629669-73-4 CAPLUS

CN Acetamide, N-[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

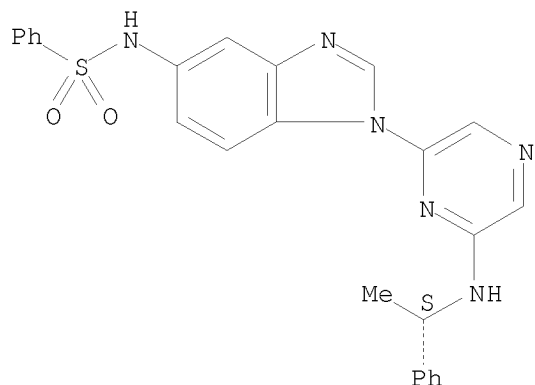


RN 629669-95-0 CAPLUS

CN Benzenesulfonamide, N-[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

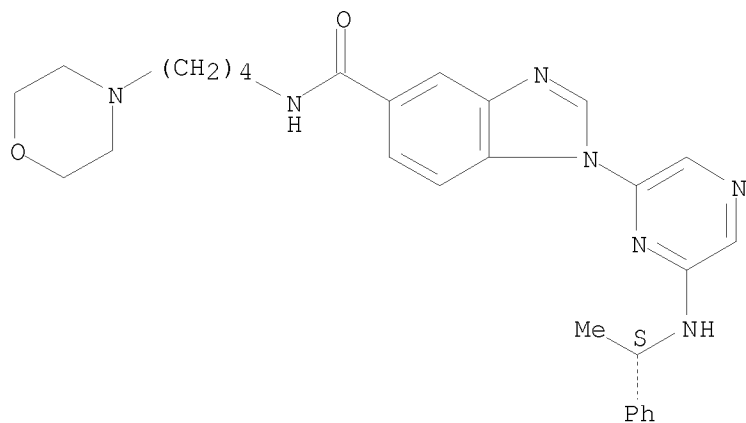
10581412



RN 629670-08-2 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-[4-(4-morpholinyl)butyl]-1-[6-[(1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

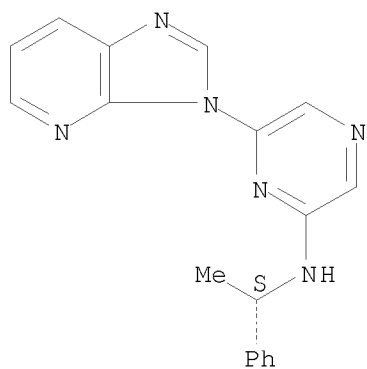


RN 629670-17-3 CAPLUS

CN 2-Pyrazinamine, 6-(3H-imidazo[4,5-b]pyridin-3-yl)-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

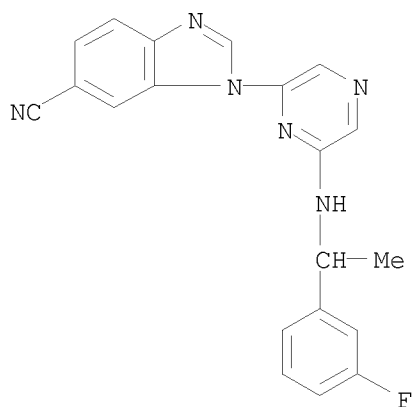
Absolute stereochemistry.

10581412



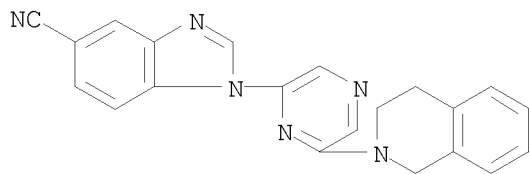
RN 853887-50-0 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-(3-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853887-51-1 CAPLUS

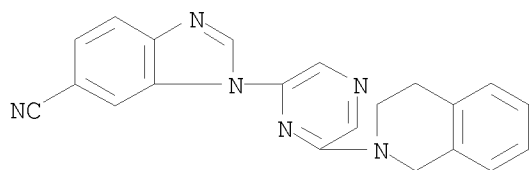
CN 1H-Benzimidazole-5-carbonitrile, 1-[6-(3,4-dihydro-2(1H)-isoquinolinyl)-2-pyrazinyl]- (CA INDEX NAME)



RN 853887-52-2 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-(3,4-dihydro-2(1H)-isoquinolinyl)-2-pyrazinyl]- (CA INDEX NAME)

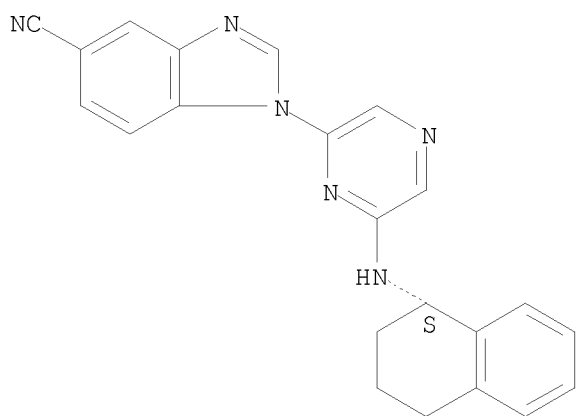
10581412



RN 853887-53-3 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-(4-cyanophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

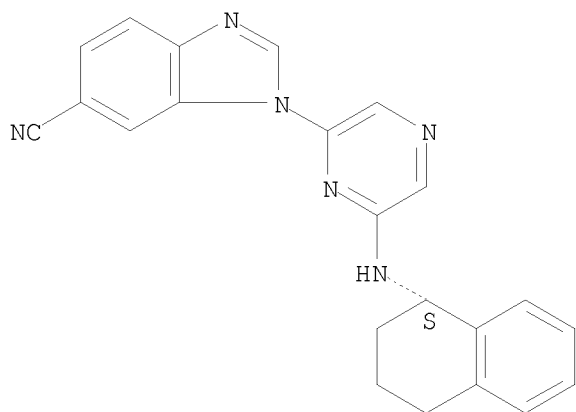
Absolute stereochemistry.



RN 853887-54-4 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-(4-cyanophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

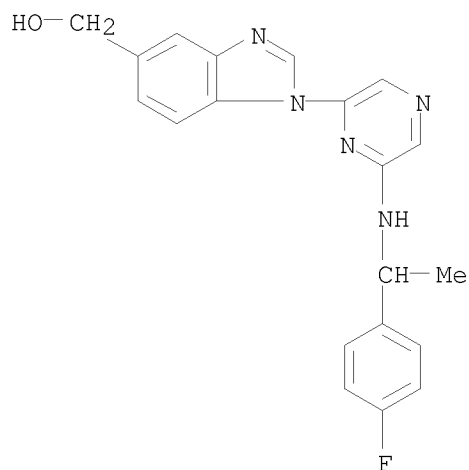


RN 853887-55-5 CAPLUS

CN 1H-Benzimidazole-5-methanol, 1-[6-[[1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]-

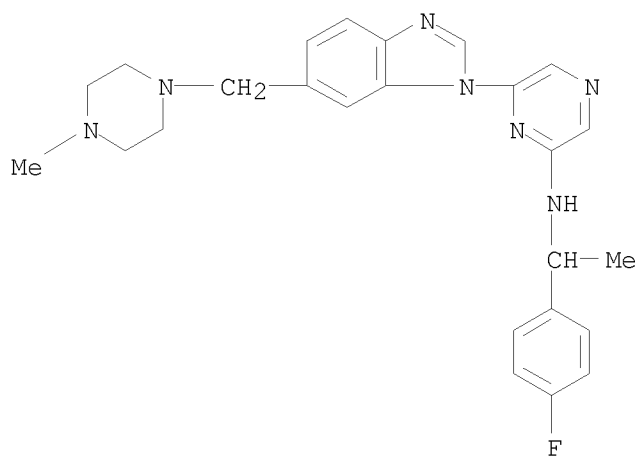
10581412

pyrazinyl]- (CA INDEX NAME)



RN 853887-57-7 CAPLUS

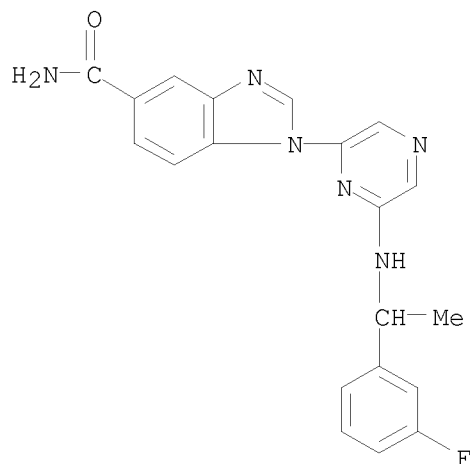
CN 2-Pyrazinamine, N-[1-(4-fluorophenyl)ethyl]-6-[6-[(4-methyl-1-piperazinyl)methyl]-1H-benzimidazol-1-yl]- (CA INDEX NAME)



RN 853887-58-8 CAPLUS

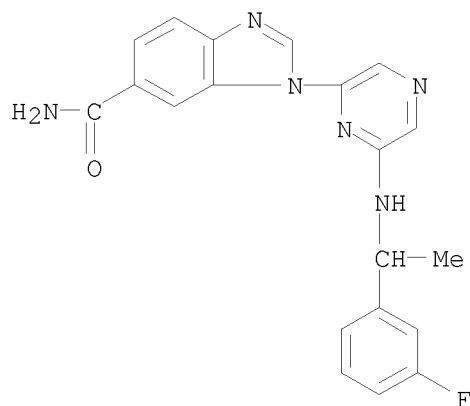
CN 1H-Benzimidazole-5-carboxamide, 1-[6-[[1-(3-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

10581412



RN 853887-59-9 CAPLUS

CN 1H-Benzimidazole-6-carboxamide, 1-[6-[[1-(3-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

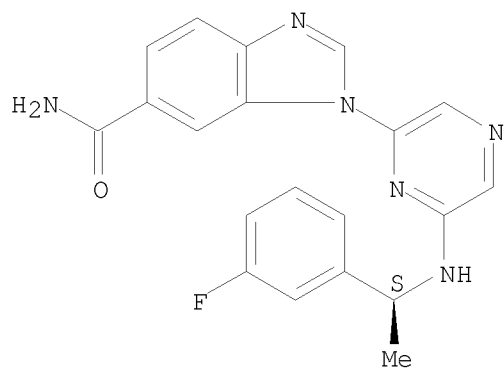


RN 853887-60-2 CAPLUS

CN 1H-Benzimidazole-6-carboxamide, 1-[6-[[1S)-1-(3-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

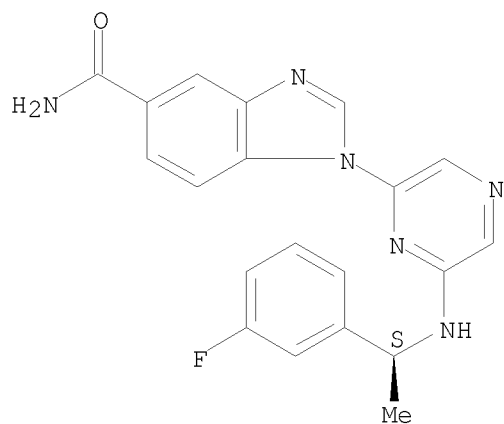
10581412



RN 853887-61-3 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, 1-[6-[[[(1S)-1-(3-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.



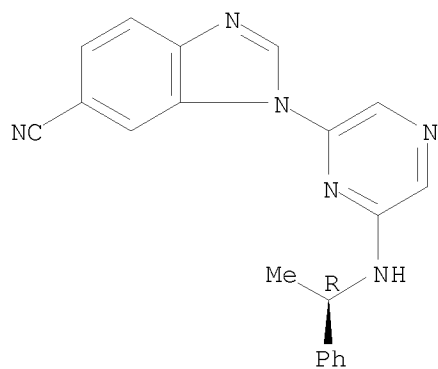
RN 853887-62-4 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[[(1R)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.



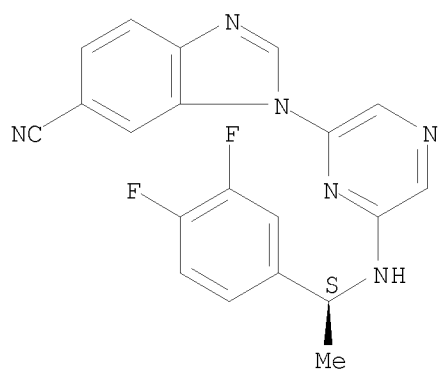
10581412



RN 853887-63-5 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[ (1S)-1-(3,4-difluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

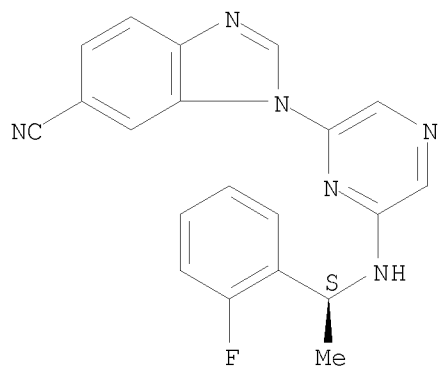
Absolute stereochemistry.



RN 853887-64-6 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[ (1S)-1-(2-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

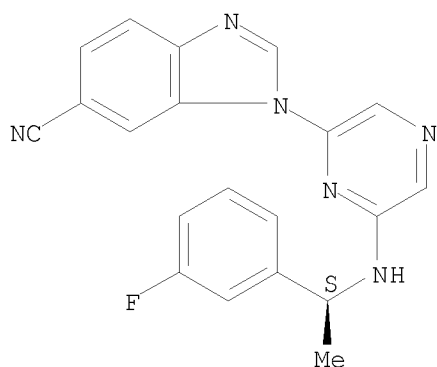


10581412

RN 853887-65-7 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[ (1S)-1-(3-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

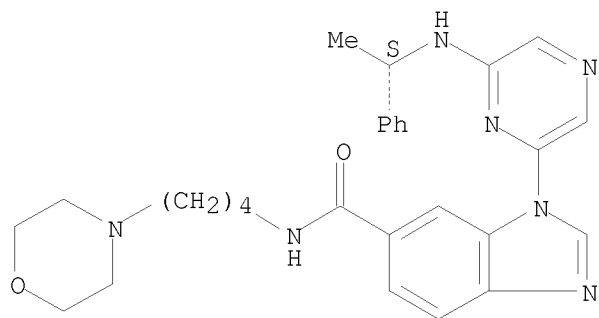
Absolute stereochemistry.



RN 853887-66-8 CAPLUS

CN 1H-Benzimidazole-6-carboxamide, N-[4-(4-morpholinyl)butyl]-1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

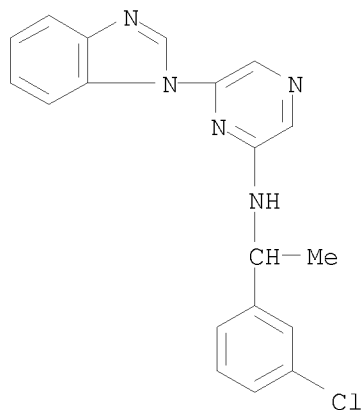
Absolute stereochemistry.



RN 853887-67-9 CAPLUS

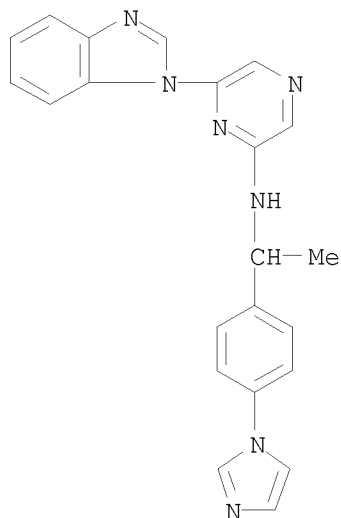
CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[1-(3-chlorophenyl)ethyl]- (CA INDEX NAME)

10581412



RN 853887-68-0 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[1-[4-(1H-imidazol-1-yl)phenyl]ethyl]- (CA INDEX NAME)

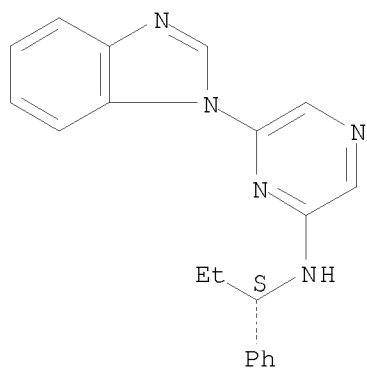


RN 853887-69-1 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1S)-1-phenylpropyl]- (CA INDEX NAME)

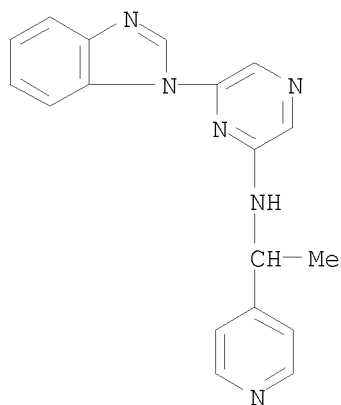
Absolute stereochemistry.

10581412



RN 853887-70-4 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[1-(4-pyridinyl)ethyl]- (CA INDEX NAME)

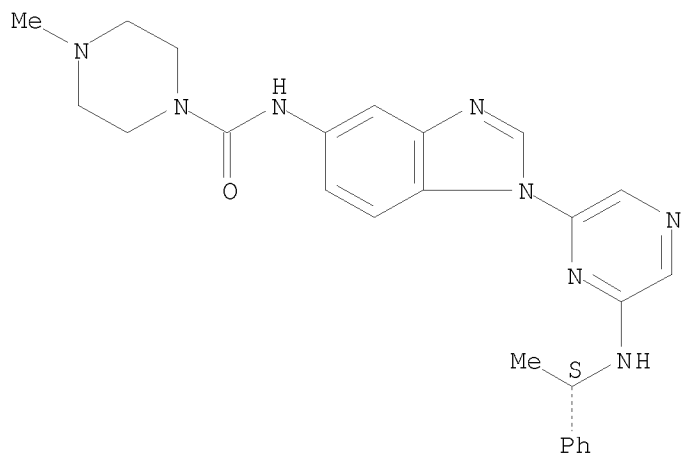


RN 853887-71-5 CAPLUS

CN 1-Piperazinecarboxamide, 4-methyl-N-[1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

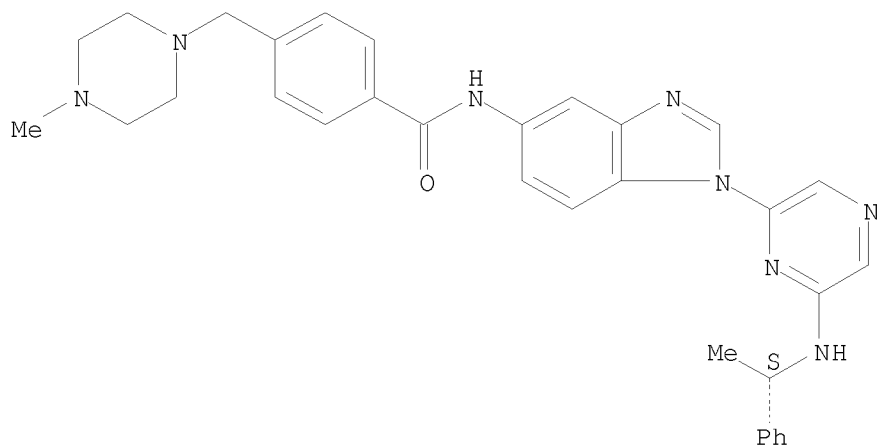
Absolute stereochemistry.

10581412



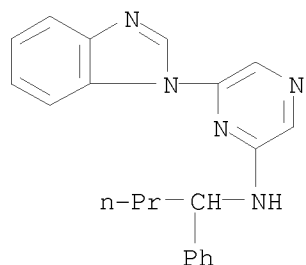
RN 853887-72-6 CAPLUS  
CN Benzamide, 4-[(4-methyl-1-piperazinyl)methyl]-N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 853887-78-2 CAPLUS  
CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-(1-phenylbutyl)- (CA INDEX NAME)

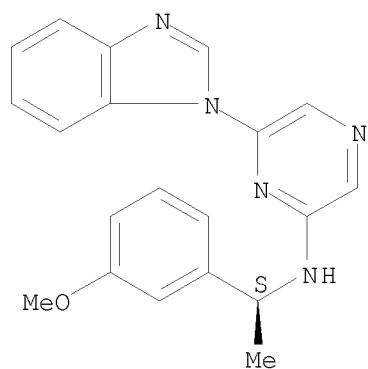
10581412



RN 853887-79-3 CAPLUS

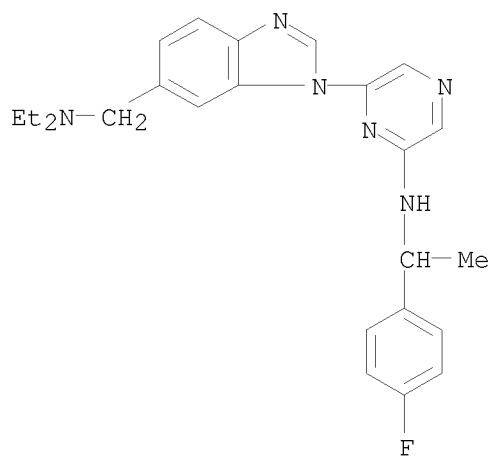
CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1S)-1-(3-methoxyphenyl)ethyl]-  
(CA INDEX NAME)

Absolute stereochemistry.



RN 853887-80-6 CAPLUS

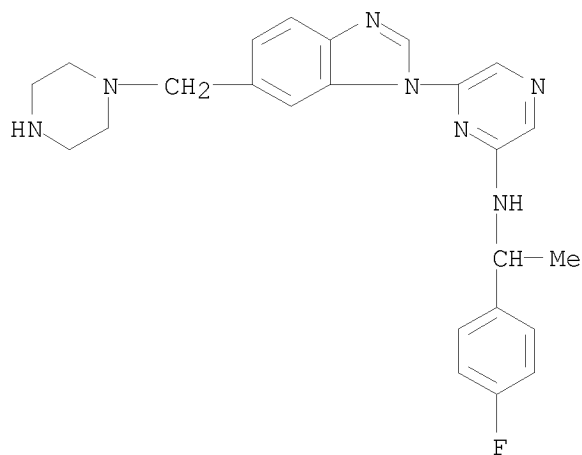
CN 1H-Benzimidazole-6-methanamine, N,N-diethyl-1-[6-[[1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]-  
(CA INDEX NAME)



RN 853887-81-7 CAPLUS

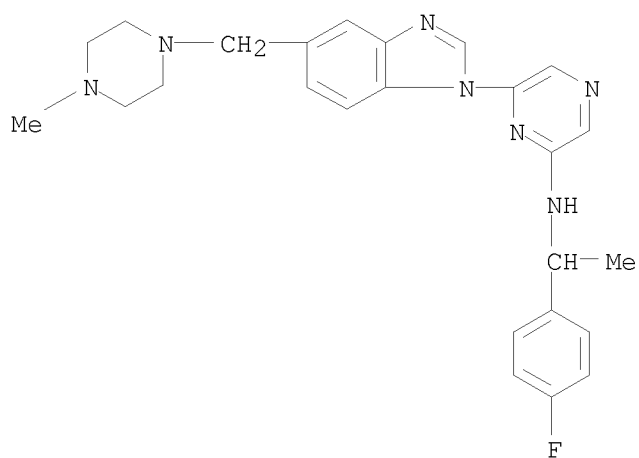
10581412

CN 2-Pyrazinamine, N-[1-(4-fluorophenyl)ethyl]-6-[6-(1-piperazinylmethyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)



RN 853887-82-8 CAPLUS

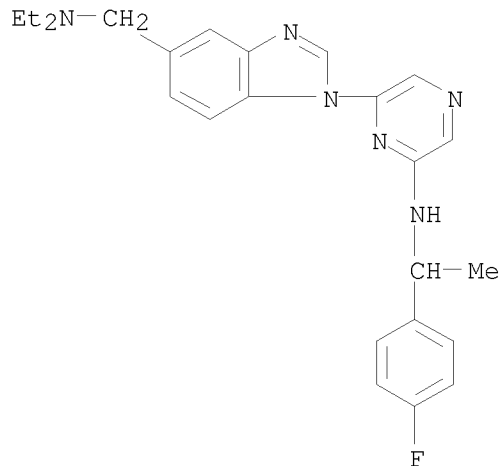
CN 2-Pyrazinamine, N-[1-(4-fluorophenyl)ethyl]-6-[5-[(4-methyl-1-piperazinyl)methyl]-1H-benzimidazol-1-yl]- (CA INDEX NAME)



RN 853887-83-9 CAPLUS

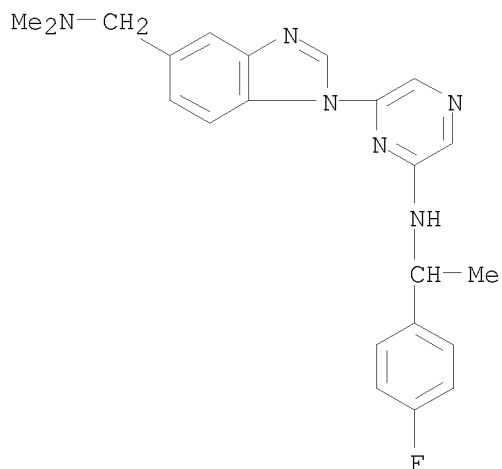
CN 1H-Benzimidazole-5-methanamine, N,N-diethyl-1-[6-[[1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

10581412



RN 853887-84-0 CAPLUS

CN 1H-Benzimidazole-5-methanamine, 1-[6-[[1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]-N,N-dimethyl- (CA INDEX NAME)

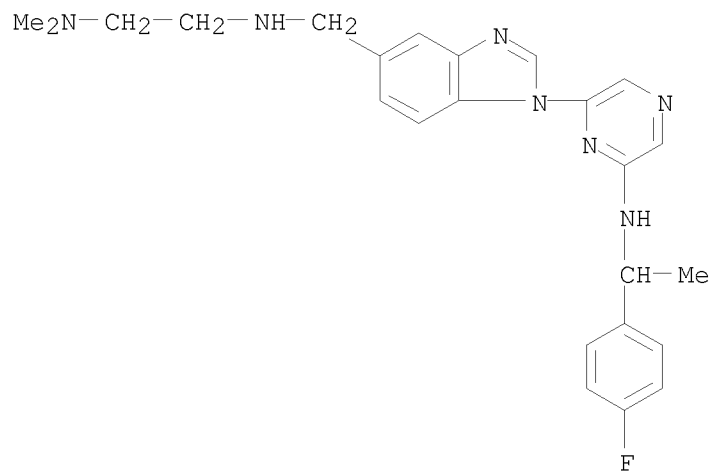


RN 853887-85-1 CAPLUS

CN 1,2-Ethanediamine, N'-[[1-[6-[[1-(4-fluorophenyl)ethyl]amino]pyrazinyl]-1H-benzimidazol-5-yl]methyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

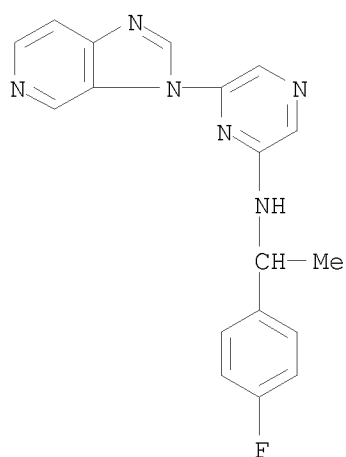


10581412



RN 853887-86-2 CAPLUS

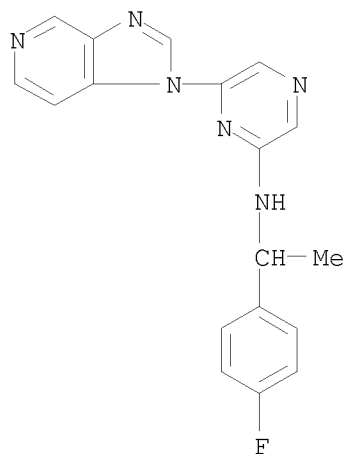
CN 2-Pyrazinamine, N-[1-(4-fluorophenyl)ethyl]-6-(3H-imidazo[4,5-c]pyridin-3-yl)- (CA INDEX NAME)



RN 853887-87-3 CAPLUS

CN 2-Pyrazinamine, N-[1-(4-fluorophenyl)ethyl]-6-(1H-imidazo[4,5-c]pyridin-1-yl)- (CA INDEX NAME)

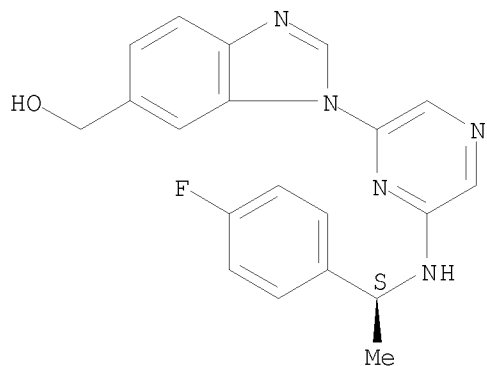
10581412



RN 853887-88-4 CAPLUS

CN 1H-Benzimidazole-6-methanol, 1-[6-[[1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

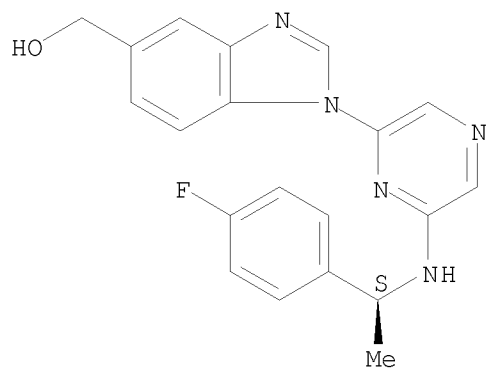


RN 853887-89-5 CAPLUS

CN 1H-Benzimidazole-5-methanol, 1-[6-[[1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

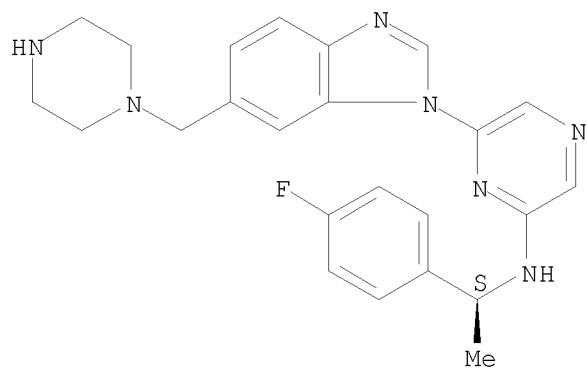
10581412



RN 853887-90-8 CAPLUS

CN 2-Pyrazinamine, N-[(1S)-1-(4-fluorophenyl)ethyl]-6-[6-(1-piperazinylmethyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)

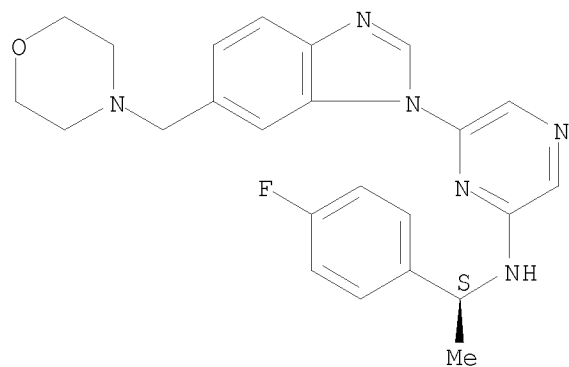
Absolute stereochemistry.



RN 853887-91-9 CAPLUS

CN 2-Pyrazinamine, N-[(1S)-1-(4-fluorophenyl)ethyl]-6-[6-(4-morpholinylmethyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

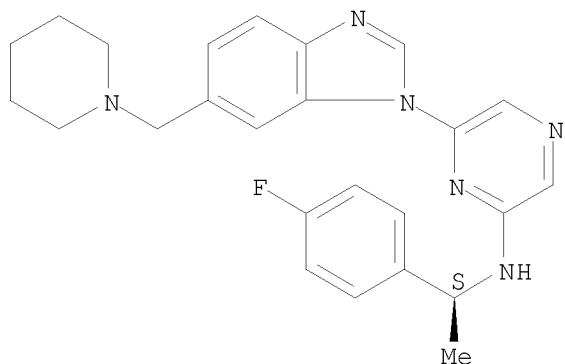


10581412

RN 853887-92-0 CAPLUS

CN 2-Pyrazinamine, N-[(1S)-1-(4-fluorophenyl)ethyl]-6-[6-(1-piperidinylmethyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)

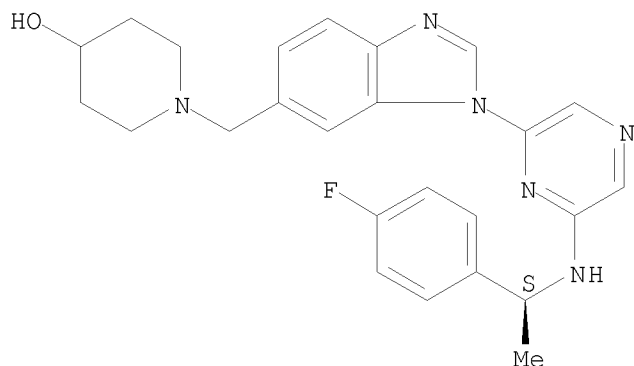
Absolute stereochemistry.



RN 853887-93-1 CAPLUS

CN 4-Piperidinol, 1-[[[1-[6-[[ (1S)-1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.

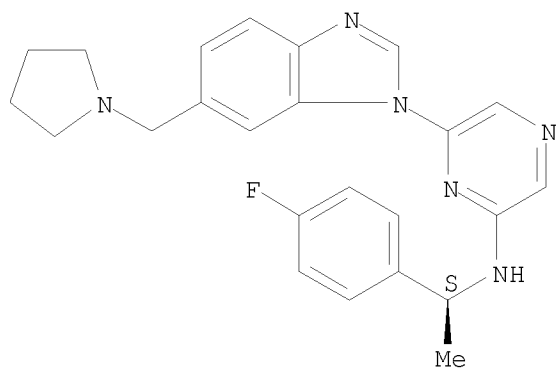


RN 853887-94-2 CAPLUS

CN 2-Pyrazinamine, N-[(1S)-1-(4-fluorophenyl)ethyl]-6-[6-(1-pyrrolidinylmethyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

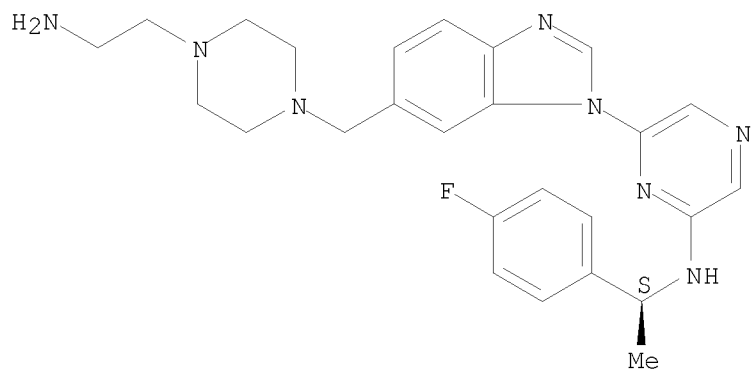
10581412



RN 853887-95-3 CAPLUS

CN 2-Pyrazinamine, 6-[[4-(2-aminoethyl)-1-piperazinyl]methyl]-1H-benzimidazol-1-yl]-N-[(1S)-1-(4-fluorophenyl)ethyl]- (CA INDEX NAME)

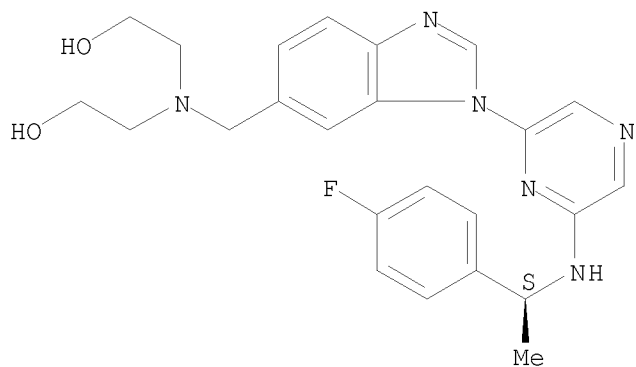
Absolute stereochemistry.



RN 853887-96-4 CAPLUS

CN Ethanol, 2,2'-[[[1-[6-[[[(1S)-1-(4-fluorophenyl)ethyl]amino]pyrazinyl]-1H-benzimidazol-6-yl]methyl]imino]bis- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

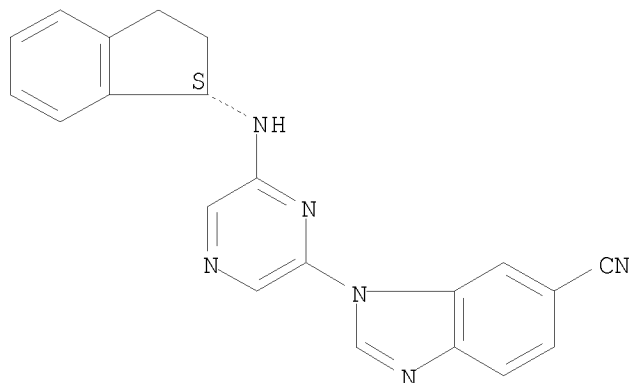


10581412

RN 853887-97-5 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[ (1S)-2,3-dihydro-1H-inden-1-yl]amino]-2-pyrazinyl]- (CA INDEX NAME)

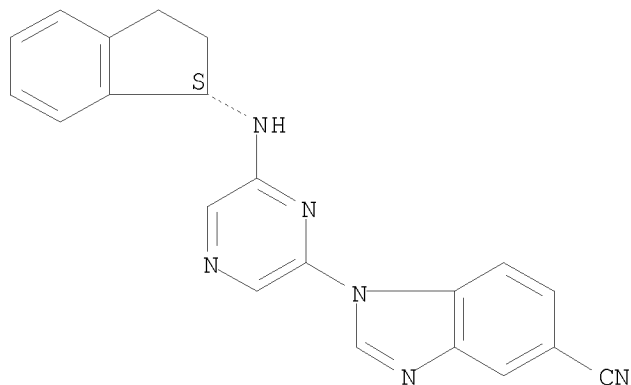
Absolute stereochemistry.



RN 853887-98-6 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[ (1S)-2,3-dihydro-1H-inden-1-yl]amino]-2-pyrazinyl]- (CA INDEX NAME)

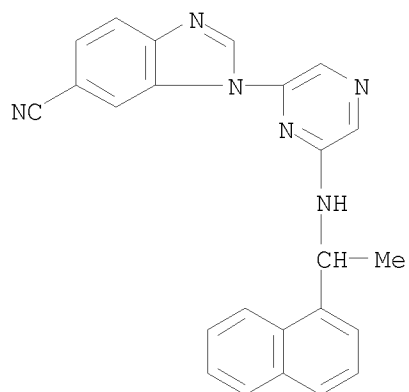
Absolute stereochemistry.



RN 853887-99-7 CAPLUS

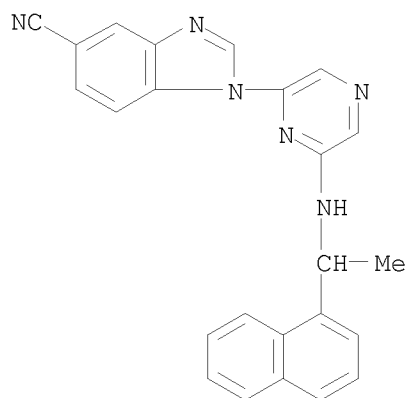
CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-(1-naphthalenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

10581412



RN 853888-00-3 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-(1-naphthalenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

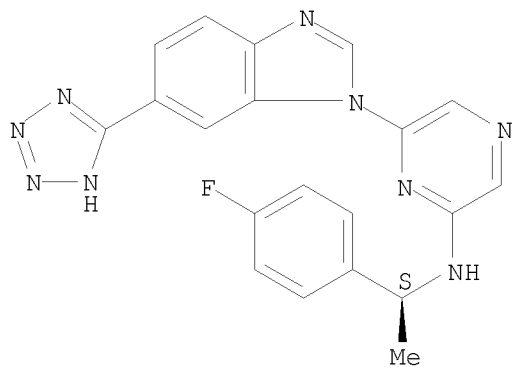


RN 853888-02-5 CAPLUS

CN 2-Pyrazinamine, N-[(1S)-1-(4-fluorophenyl)ethyl]-6-[6-(2H-tetrazol-5-yl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.

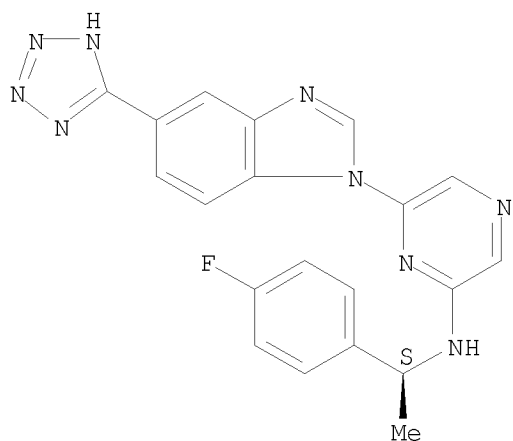
10581412



RN 853888-03-6 CAPLUS

CN 2-Pyrazinamine, N-[(1S)-1-(4-fluorophenyl)ethyl]-6-[5-(2H-tetrazol-5-yl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)

Absolute stereochemistry.



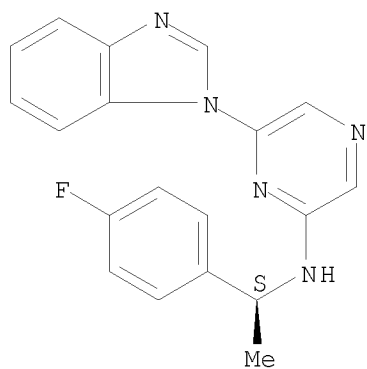
RN 853888-04-7 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1S)-1-(4-fluorophenyl)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



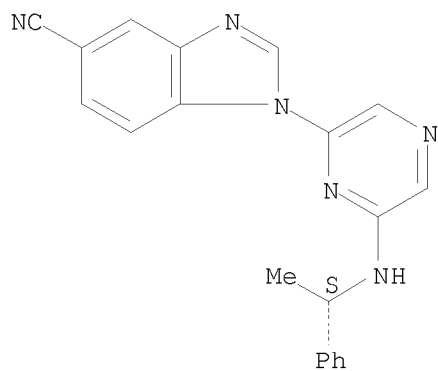
10581412



RN 853888-05-8 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

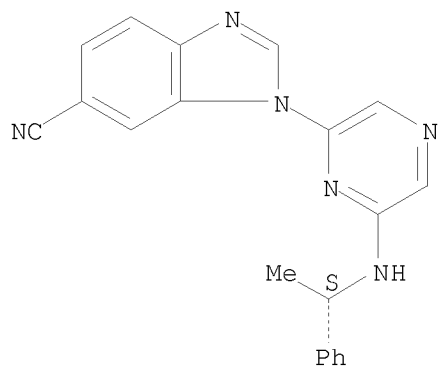
Absolute stereochemistry.



RN 853888-06-9 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

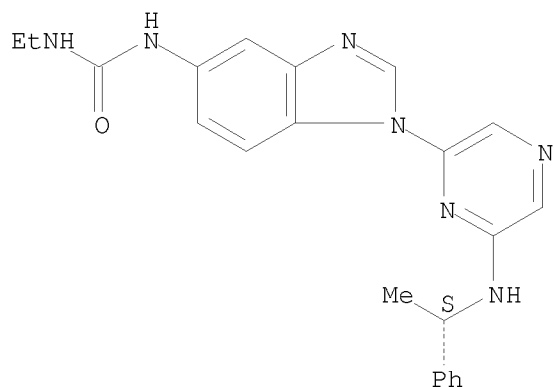


10581412

RN 853888-07-0 CAPLUS

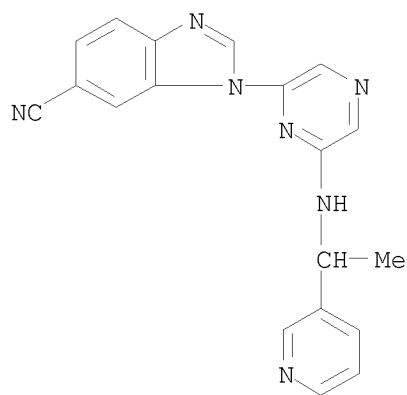
CN Urea, N-ethyl-N'-[1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 853888-08-1 CAPLUS

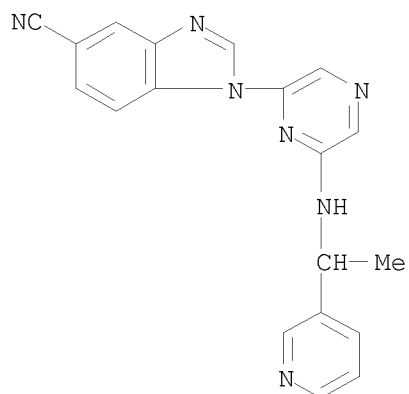
CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-(3-pyridinyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853888-09-2 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-(3-pyridinyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

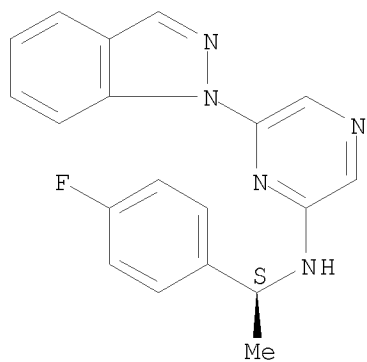
10581412



RN 853888-10-5 CAPLUS

CN 2-Pyrazinamine, N-[(1S)-1-(4-fluorophenyl)ethyl]-6-(1H-indazol-1-yl)- (CA INDEX NAME)

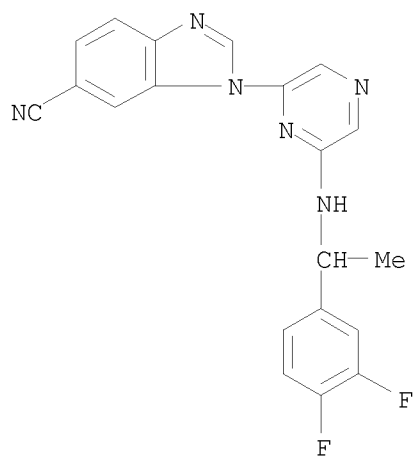
Absolute stereochemistry.



RN 853888-12-7 CAPLUS

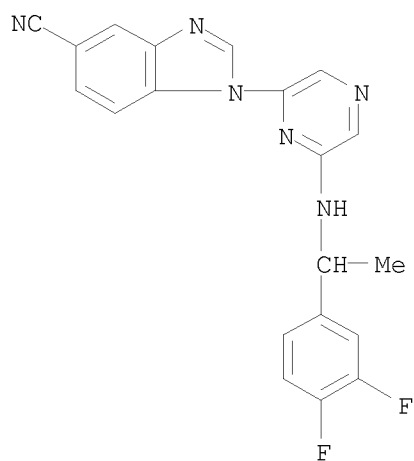
CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-(3,4-difluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

10581412



RN 853888-13-8 CAPLUS

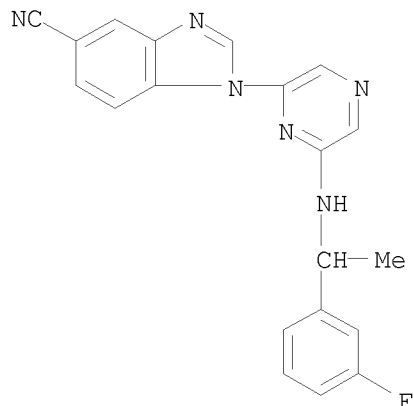
CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-(3,4-difluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)



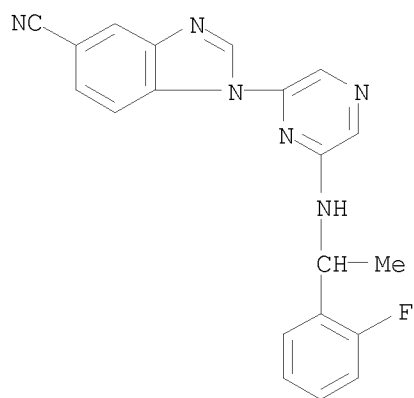
RN 853888-14-9 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-(3-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

10581412

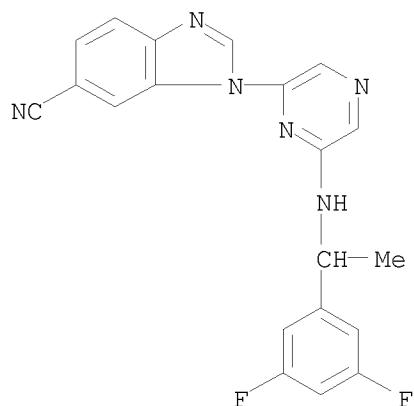


RN 853888-15-0 CAPLUS  
CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-(2-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)



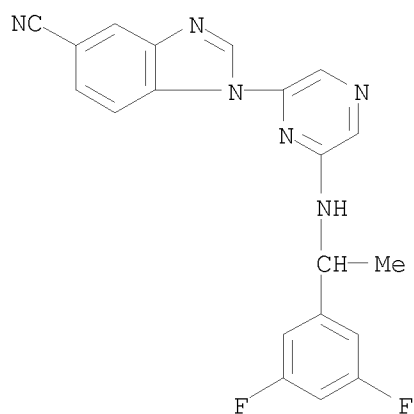
RN 853888-16-1 CAPLUS  
CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-(3,5-difluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

10581412



RN 853888-17-2 CAPLUS

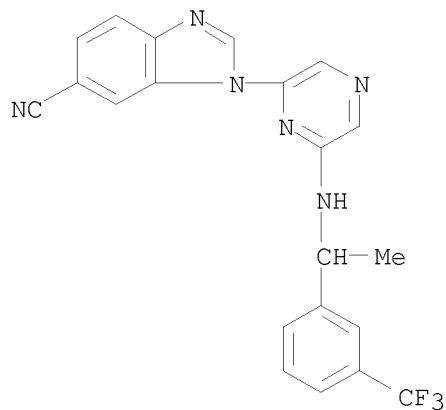
CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-(3,5-difluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853888-18-3 CAPLUS

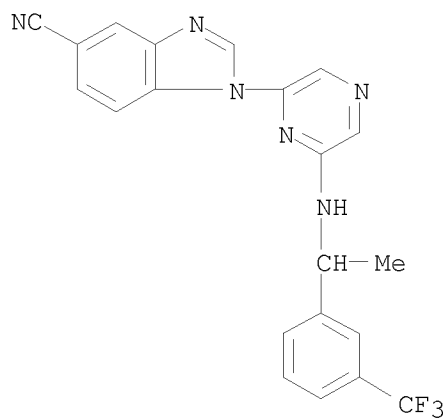
CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-[3-(trifluoromethyl)phenyl]ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

10581412



RN 853888-19-4 CAPLUS

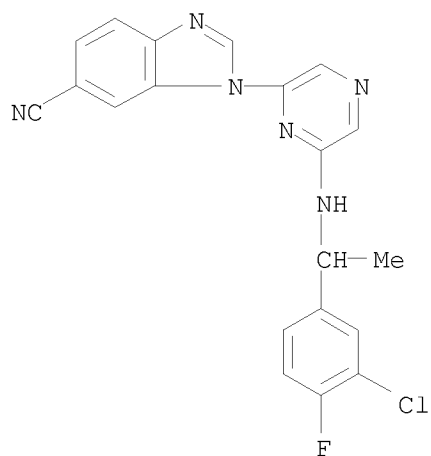
CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-[3-(trifluoromethyl)phenyl]ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853888-20-7 CAPLUS

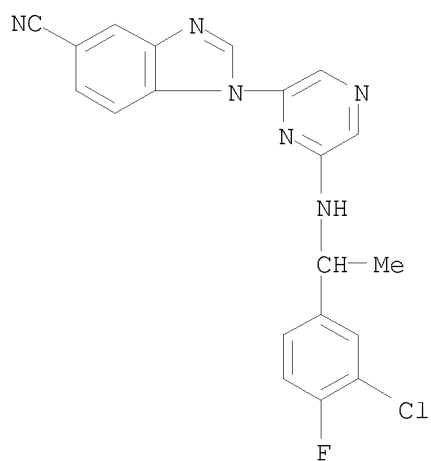
CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-(3-chloro-4-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

10581412



RN 853888-21-8 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-(3-chloro-4-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

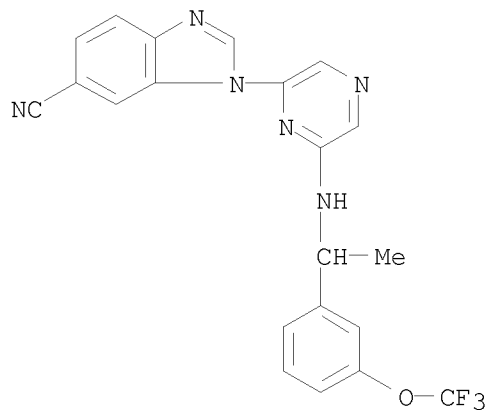


RN 853888-22-9 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-[3-(trifluoromethoxy)phenyl]ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

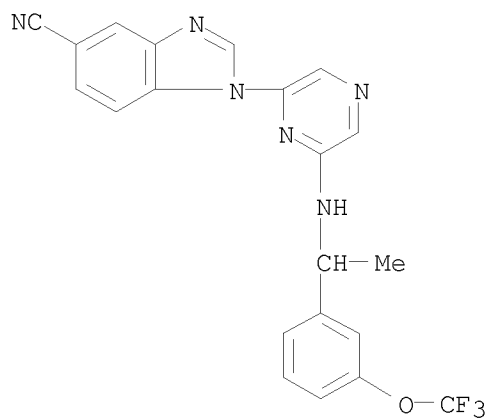


10581412



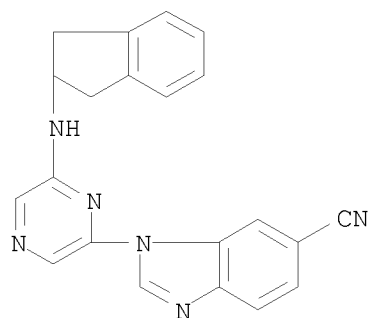
RN 853888-23-0 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-[3-(trifluoromethoxy)phenyl]ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853888-24-1 CAPLUS

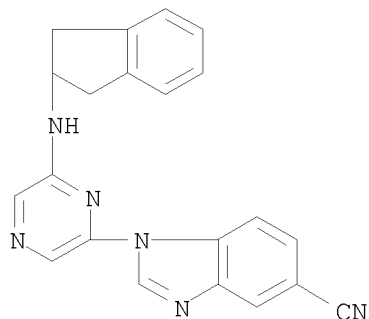
CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[(2,3-dihydro-1H-inden-2-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)



10581412

RN 853888-25-2 CAPLUS

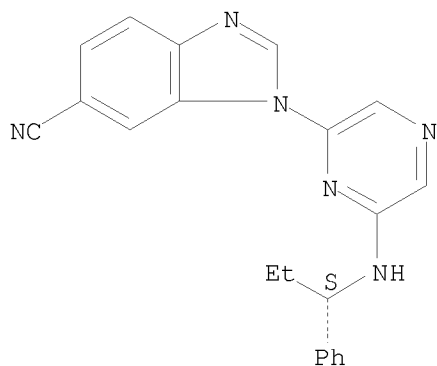
CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[(2,3-dihydro-1H-inden-2-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853888-26-3 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[ (1S)-1-phenylpropyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

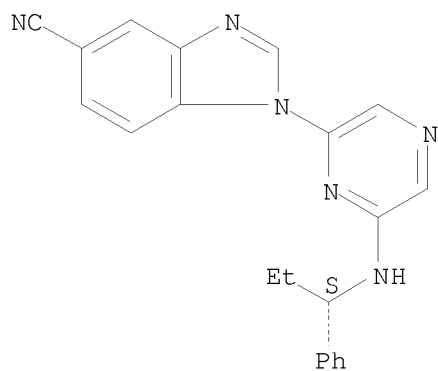


RN 853888-27-4 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[ (1S)-1-phenylpropyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

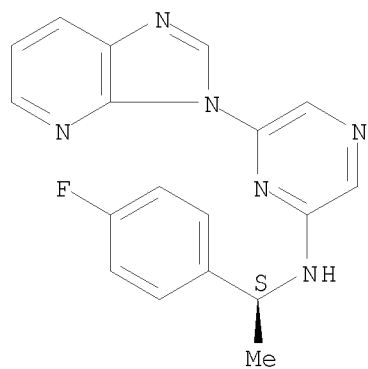
10581412



RN 853888-28-5 CAPLUS

CN 2-Pyrazinamine, N-[(1S)-1-(4-fluorophenyl)ethyl]-6-(3H-imidazo[4,5-b]pyridin-3-yl)- (CA INDEX NAME)

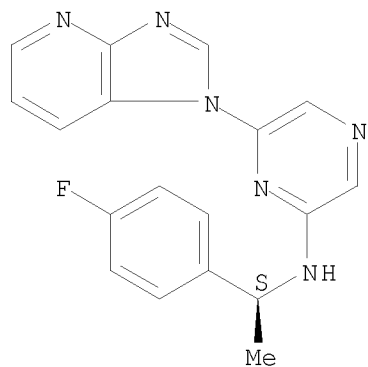
Absolute stereochemistry.



RN 853888-29-6 CAPLUS

CN 2-Pyrazinamine, N-[(1S)-1-(4-fluorophenyl)ethyl]-6-(1H-imidazo[4,5-b]pyridin-1-yl)- (CA INDEX NAME)

Absolute stereochemistry.

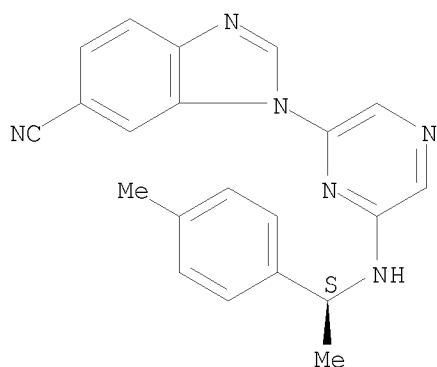


10581412

RN 853888-30-9 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[ (1S)-1-(4-methylphenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

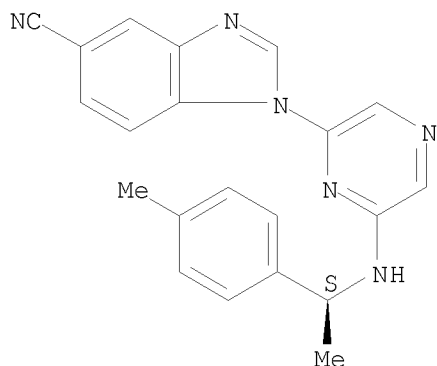
Absolute stereochemistry.



RN 853888-31-0 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[ (1S)-1-(4-methylphenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

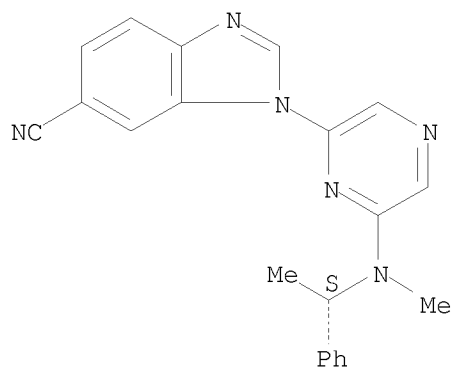


RN 853888-32-1 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[methyl[(1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

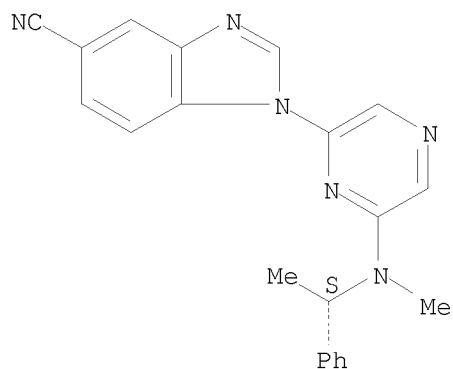
10581412



RN 853888-33-2 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[methyl[(1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

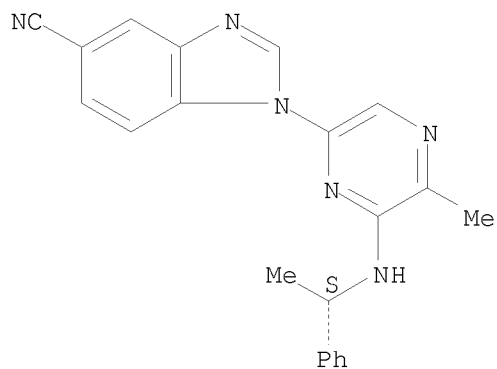
Absolute stereochemistry.



RN 853888-34-3 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[5-methyl-6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

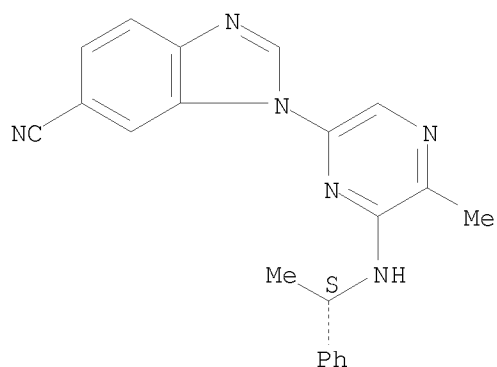


10581412

RN 853888-35-4 CAPLUS

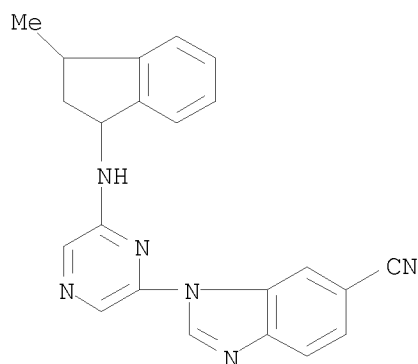
CN 1H-Benzimidazole-6-carbonitrile, 1-[5-methyl-6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 853888-37-6 CAPLUS

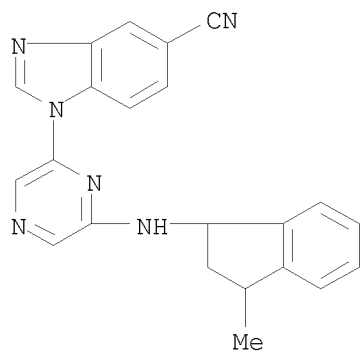
CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[(2,3-dihydro-3-methyl-1H-inden-1-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853888-38-7 CAPLUS

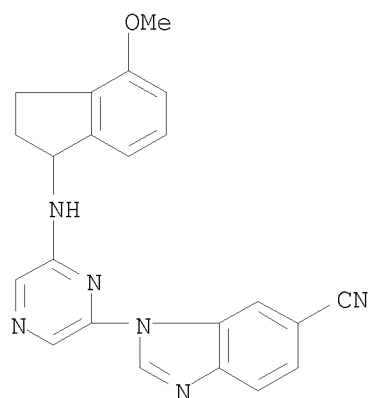
CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[(2,3-dihydro-3-methyl-1H-inden-1-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)

10581412



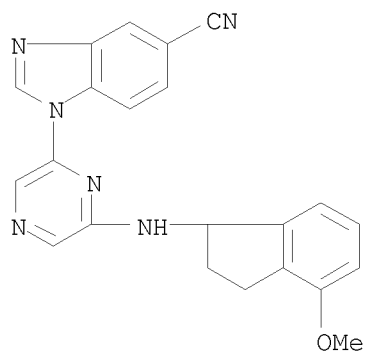
RN 853888-39-8 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[(2,3-dihydro-4-methoxy-1H-inden-1-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853888-40-1 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[(2,3-dihydro-4-methoxy-1H-inden-1-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)

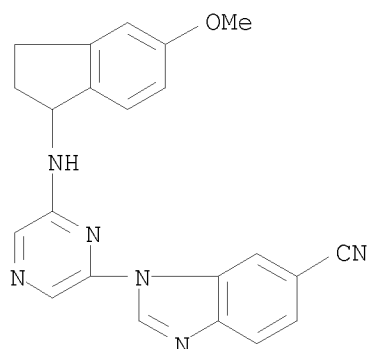


RN 853888-41-2 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[(2,3-dihydro-5-methoxy-1H-inden-1-

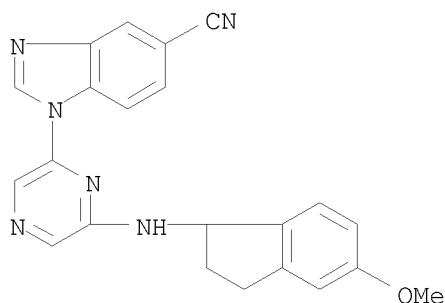
10581412

yl)amino]-2-pyrazinyl]- (CA INDEX NAME)



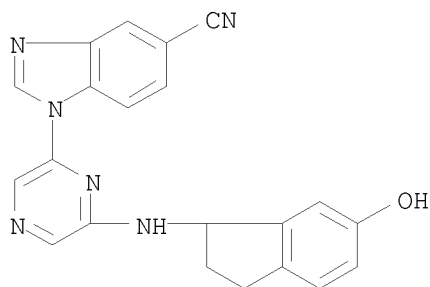
RN 853888-42-3 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[(2,3-dihydro-5-methoxy-1H-inden-1-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853888-43-4 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[(2,3-dihydro-6-hydroxy-1H-inden-1-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)

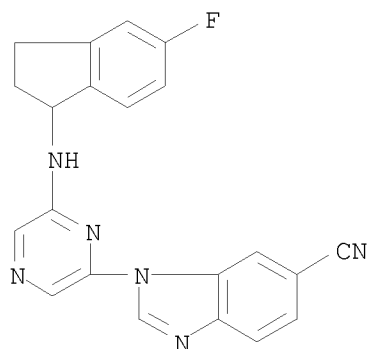


RN 853888-44-5 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[(5-fluoro-2,3-dihydro-1H-inden-1-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)

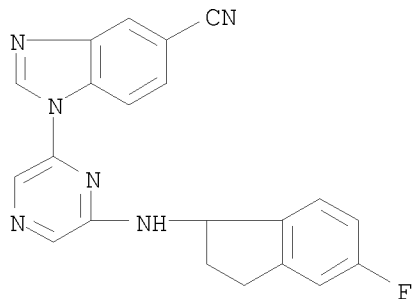


10581412



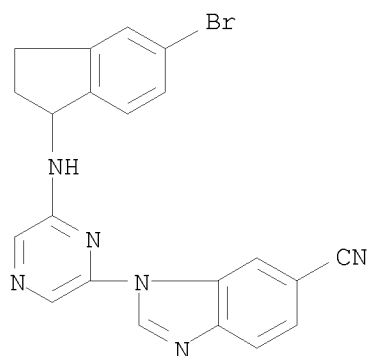
RN 853888-45-6 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[(5-fluoro-2,3-dihydro-1H-inden-1-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853888-46-7 CAPLUS

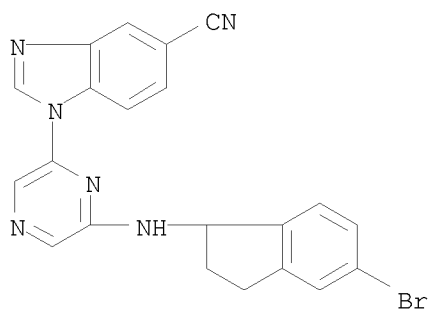
CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[(5-bromo-2,3-dihydro-1H-inden-1-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)



RN 853888-47-8 CAPLUS

CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[(5-bromo-2,3-dihydro-1H-inden-1-yl)amino]-2-pyrazinyl]- (CA INDEX NAME)

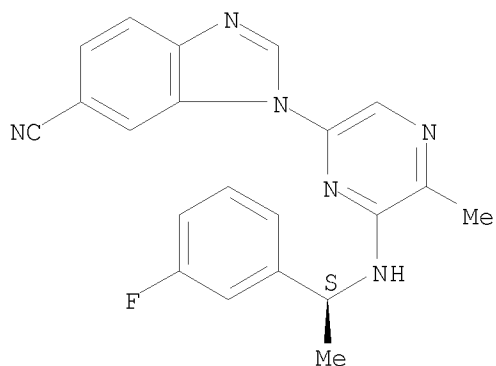
10581412



RN 853888-48-9 CAPLUS

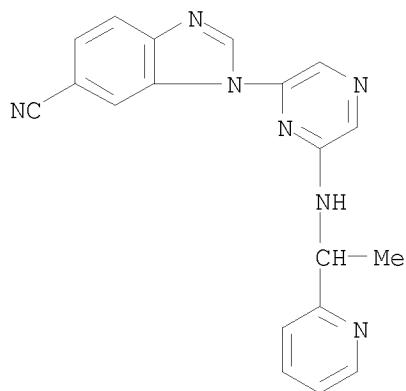
CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-(3-fluorophenyl)ethyl]amino]-5-methyl-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 853888-49-0 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-[6-[[1-(2-pyridinyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

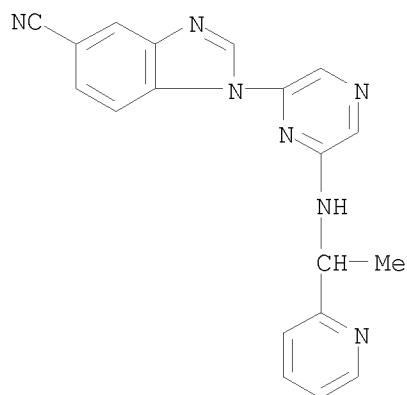


RN 853888-50-3 CAPLUS

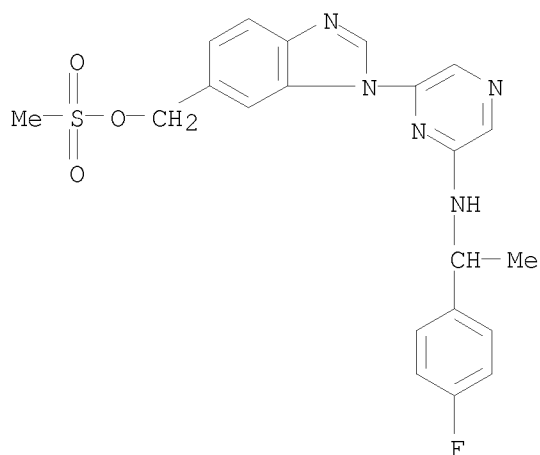
CN 1H-Benzimidazole-5-carbonitrile, 1-[6-[[1-(2-pyridinyl)ethyl]amino]-2-pyrazinyl]-

10581412

pyrazinyl]- (CA INDEX NAME)



IT 853888-56-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation of pyrazine derivs. as kinase inhibitors)  
RN 853888-56-9 CAPLUS  
CN 1H-Benzimidazole-6-methanol, 1-[6-[[1-(4-fluorophenyl)ethyl]amino]-2-  
pyrazinyl]-, 6-methanesulfonate (CA INDEX NAME)



GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [A = (un)substituted-aryl, -heteroaryl; W, X, Y and Z =  
(un)substituted carbon, or one of W, X, Y and Z is nitrogen and the rest  
(un)substituted carbon; Q = bond, CH<sub>2</sub>, alkyl; R<sub>1</sub> = H, alkyl, cycloalkyl,  
etc.; R<sub>2</sub> = H, (un)substituted-alkyl, -alkenyl, etc.; R<sub>3</sub> = 0-2 substituents

selected from H, alkyl, NR<sub>5</sub>R<sub>6</sub>; R<sub>4</sub> independently = H, halo, alkyl, etc.; R<sub>5</sub> and R<sub>6</sub> independently = H, alkyl] and their pharmaceutically acceptable salts, are prepared and disclosed as kinase inhibitors. Thus, e.g., II was prepared by coupling of (6-chloro-pyrazin-2yl)-(1-benzyl)-amine with benzimidazole. The activity of I was evaluated and it was revealed that selected compds. of the invention displayed an inhibition capacity of 50% or greater at a concentration of 20  $\mu$ M. I as inhibitors of kinases should prove useful in the treatment of diseases such as, but not limited to, rheumatic, viral and cardiovascular diseases. Pharmaceutical compns. comprising I are disclosed.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10581412

L4 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2003:951019 CAPLUS  
DOCUMENT NUMBER: 140:16748  
TITLE: Preparation of imidazolylpyrazines as protein kinase  
inhibitors for treatment of receptor type tyrosine  
kinase-related diseases  
INVENTOR(S): Wilks, Andrew Fredrick; Bu, Xianyong; Burns,  
Christopher John  
PATENT ASSIGNEE(S): Cytopia Pty. Ltd., Australia  
SOURCE: PCT Int. Appl., 106 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
WO 2003099811	A1	20031204	WO 2003-AU628	20030523
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2486187	A1	20031204	CA 2003-2486187	20030523
AU 2003229370	A1	20031212	AU 2003-229370	20030523
GB 2398781	A	20040901	GB 2003-18343	20030523
GB 2398781	B	20050202		
EP 1511742	A1	20050309	EP 2003-722065	20030523
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1671696	A	20050921	CN 2003-817452	20030523
JP 2005535597	T	20051124	JP 2004-507468	20030523
NZ 537156	A	20070629	NZ 2003-537156	20030523
US 20050004140	A1	20050106	US 2003-472156	20030919
US 7259179	B2	20070821		
IN 2004KN01743	A	20060602	IN 2004-KN1743	20041117
ZA 2004009346	A	20060222	ZA 2004-9346	20041119
US 20060241112	A1	20061026	US 2006-397973	20060404
US 20060270687	A1	20061130	US 2006-397982	20060404
US 20070161635	A1	20070712	US 2007-711957	20070227
PRIORITY APPLN. INFO.:			AU 2002-2514	A 20020523
			US 2002-398998P	P 20020726
			WO 2003-AU628	W 20030523
			US 2003-472156	A3 20030919
OTHER SOURCE(S):	MARPAT 140:16748			
IT 629669-29-0P, 6-(1H-Benzimidazol-1-yl)-N-((1R)-1- phenylethyl)pyrazin-2-amine 629669-31-4P, 6-(1H-Benzimidazol-1-yl)-N-[(1S)-1-(4-methoxyphenyl)ethyl]pyrazin-2-amine 629669-33-6P, 6-(1H-Benzimidazol-1-yl)-N-[(1S)-1-(4- bromophenyl)ethyl]pyrazin-2-amine 629669-35-8P, 1-[6-[[[(1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazole-6-				

carboxamide 629669-36-9P,  
6-(1H-Benzimidazol-1-yl)-N-benzylpyrazin-2-amine 629669-37-0P,  
1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazole-5-  
carboxamide 629669-38-1P,  
6-(1H-Benzimidazol-1-yl)-N-(4-fluorobenzyl)pyrazin-2-amine  
629669-39-2P 629669-40-5P 629669-41-6P  
629669-43-8P, N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-  
benzimidazol-6-yl]cyclopropanecarboxamide 629669-44-9P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-  
yl]nicotinamide 629669-45-0P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-  
yl]cyclopropanecarboxamide 629669-46-1P,  
6-[6-(4,5-Dihydro-1,3-oxazol-2-yl)-1H-benzimidazol-1-yl]-N-[(1S)-1-  
phenylethyl]pyrazin-2-amine 629669-48-3P,  
1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-N-(2-hydroxyethyl)-1H-  
benzimidazole-6-carboxamide 629669-49-4P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-6-  
yl]methanesulfonamide 629669-50-7P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-  
yl]methanesulfonamide 629669-51-8P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-  
yl]isonicotinamide 629669-53-0P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-6-  
yl]isonicotinamide 629669-54-1P,  
6-(1H-Benzimidazol-1-yl)-N-[(1S)-1-phenylethyl]pyrazin-2-amine  
629669-55-2P, 6-[5-(4,5-Dihydro-1,3-oxazol-2-yl)-1H-benzimidazol-1-  
yl]-N-[(1S)-1-phenylethyl]pyrazin-2-amine 629669-56-3P,  
1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-N-(2-hydroxyethyl)-1H-  
benzimidazole-5-carboxamide 629669-57-4P,  
6-(5-Methyl-1H-benzimidazol-1-yl)-N-[(1S)-1-phenylethyl]pyrazin-2-amine  
629669-58-5P, N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-  
benzimidazol-6-yl]nicotinamide 629669-59-6P,  
N-Methyl-1-[6-[[ (1S)-1-phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazole-5-  
carboxamide 629669-60-9P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-6-yl]-2,2-  
dimethylpropanamide 629669-61-0P,  
N-Methyl-1-[6-[[ (1S)-1-phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazole-6-  
carboxamide 629669-62-1P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-yl]-2,2-  
dimethylpropanamide 629669-63-2P,  
1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-amine  
629669-64-3P, 2-Methoxy-N-[1-[6-[[ (1S)-1-phenylethyl]amino]pyrazin-  
2-yl]-1H-benzimidazol-5-yl]acetamide 629669-65-4P,  
1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-6-amine  
629669-66-5P, 2-Methoxy-N-[1-[6-[[ (1S)-1-phenylethyl]amino]pyrazin-  
2-yl]-1H-benzimidazol-6-yl]acetamide 629669-67-6P,  
N-Benzyl-1-[6-[[ (1S)-1-phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazole-5-  
carboxamide 629669-68-7P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-  
yl]pyrazine-2-carboxamide 629669-69-8P,  
1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-N-phenyl-1H-benzimidazole-5-  
carboxamide 629669-70-1P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-6-  
yl]pyrazine-2-carboxamide 629669-71-2P,  
N-[1-[6-[[ (1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-6-  
yl]acetamide 629669-72-3P,  
6-[5-[(4-Methylpiperazin-1-yl)methyl]-1H-benzimidazol-1-yl]-N-[(1S)-1-

phenylethyl)pyrazin-2-amine 629669-73-4P,  
 N-[1-[6-[(1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-yl]acetamide 629669-74-5P,  
 [1-[6-[(1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-yl]methanol 629669-75-6P,  
 N-[1-[6-[(1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-6-yl]benzamide 629669-76-7P,  
 [1-[6-[(1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-6-yl]methanol 629669-77-8P,  
 N-[1-[6-[(1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-yl]benzamide 629669-78-9P,  
 1-[6-[(1S)-1-Phenylethyl]amino]pyrazin-2-yl]-N-[2-(dimethylamino)ethyl]-1H-benzimidazole-5-carboxamide 629669-79-0P,  
 1-[6-[(1S)-1-Phenylethyl]amino]pyrazin-2-yl]-N-(pyridin-3-ylmethyl)-1H-benzimidazol-5-amine 629669-80-3P, tert-Butyl  
 (2S)-2-[[[1-[6-[(1S)-1-phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-yl]amino]carbonyl]pyrrolidine-1-carboxylate 629669-81-4P,  
 6-(3H-Imidazo[4,5-c]pyridin-3-yl)-N-[(1S)-1-phenylethyl]pyrazin-2-amine 629669-82-5P, 6-(1H-Benzimidazol-1-yl)-N-[1-(4-fluorophenyl)ethyl]pyrazin-2-amine 629669-83-6P,  
 6-(1H-Imidazo[4,5-c]pyridin-1-yl)-N-[(1S)-1-phenylethyl]pyrazin-2-amine 629669-84-7P 629669-85-8P,  
 (2S)-N-[1-[6-[(1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-yl]pyrrolidine-2-carboxamide 629669-86-9P,  
 N-((1S)-1-Phenylethyl)-6-(5-pyridin-4-yl-1H-benzimidazol-1-yl)pyrazin-2-amine 629669-87-0P, N-((1S)-1-Phenylethyl)-6-(5-pyridin-3-yl-1H-benzimidazol-1-yl)pyrazin-2-amine 629669-88-1P,  
 6-(5-Bromo-1H-benzimidazol-1-yl)-N-((1S)-1-phenylethyl)pyrazin-2-amine 629669-89-2P, N-[3-(1H-Imidazol-1-yl)propyl]-1-[6-[(1S)-1-phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazole-6-carboxamide 629669-90-5P 629669-91-6P 629669-92-7P  
 629669-93-8P, 6-(1H-Benzimidazol-1-yl)-N-((1S)-1-pyridin-3-ylethyl)pyrazin-2-amine 629669-94-9P,  
 6-(1H-Benzimidazol-1-yl)-N-[(1S)-1-(1,1'-biphenyl-4-yl)ethyl]pyrazin-2-amine 629669-95-0P, N-[1-[6-[(1S)-1-Phenylethyl]amino]pyrazin-2-yl]-1H-benzimidazol-5-yl]benzenesulfonamide 629670-01-5P  
 629670-03-7P 629670-04-8P 629670-05-9P  
 629670-06-0P 629670-07-1P 629670-08-2P  
 629670-09-3P 629670-10-6P 629670-11-7P  
 629670-12-8P 629670-13-9P 629670-14-0P  
 629670-17-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

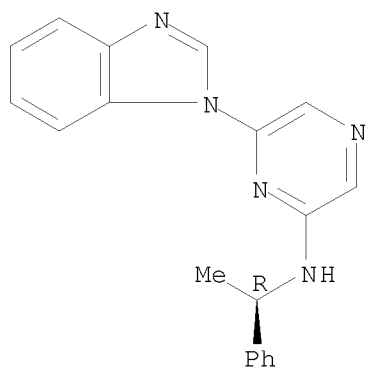
(drug candidate; preparation of imidazolylpyrazines as protein kinase inhibitors for treatment of receptor type tyrosine kinase-related diseases)

RN 629669-29-0 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.

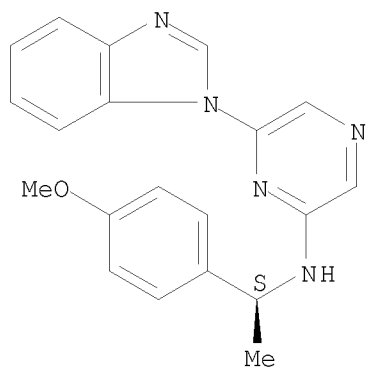
10581412



RN 629669-31-4 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1S)-1-(4-methoxyphenyl)ethyl]-  
(CA INDEX NAME)

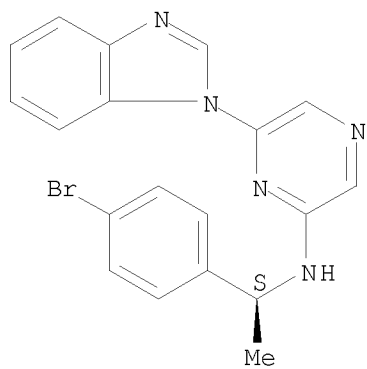
Absolute stereochemistry.



RN 629669-33-6 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1S)-1-(4-bromophenyl)ethyl]-  
(CA INDEX NAME)

Absolute stereochemistry.



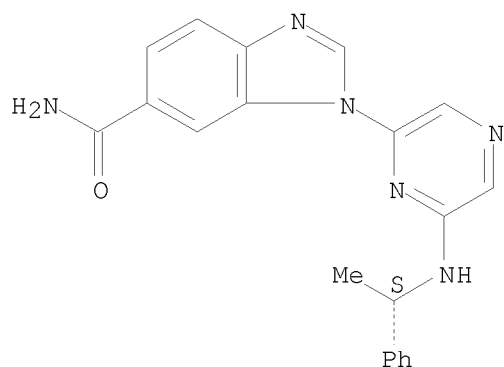


10581412

RN 629669-35-8 CAPLUS

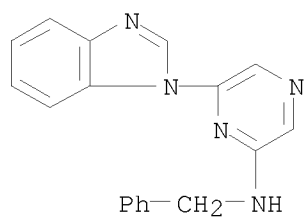
CN 1H-Benzimidazole-6-carboxamide, 1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 629669-36-9 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-(phenylmethyl)- (CA INDEX NAME)

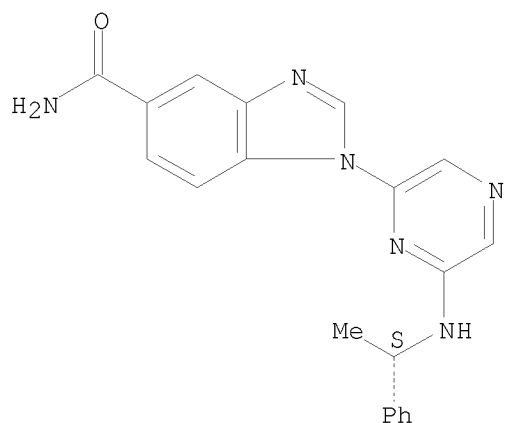


RN 629669-37-0 CAPLUS

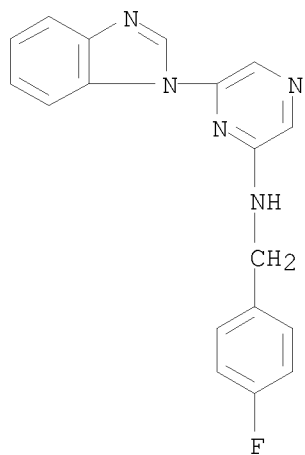
CN 1H-Benzimidazole-5-carboxamide, 1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

10581412



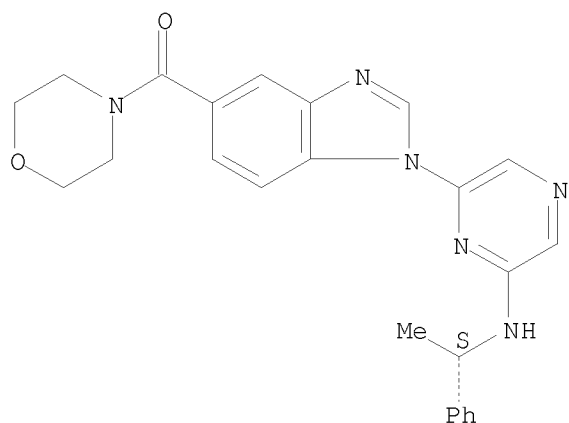
RN 629669-38-1 CAPLUS  
CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(4-fluorophenyl)methyl]- (CA INDEX NAME)



RN 629669-39-2 CAPLUS  
CN Methanone, 4-morpholinyl[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

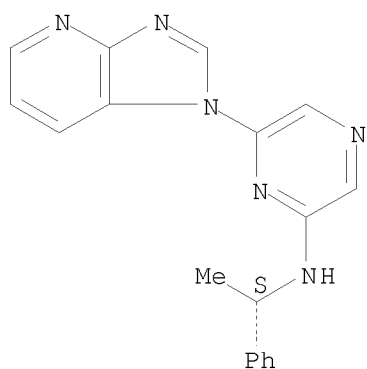
10581412



RN 629669-40-5 CAPLUS

CN 2-Pyrazinamine, 6-(1H-imidazo[4,5-b]pyridin-1-yl)-N-[(1S)-1-phenylethyl]-  
(CA INDEX NAME)

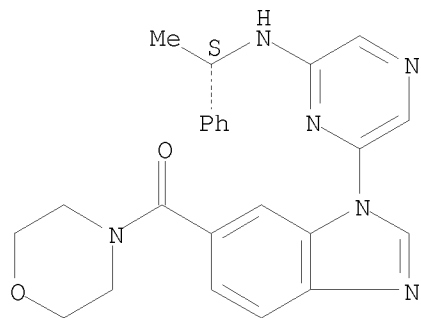
Absolute stereochemistry.



RN 629669-41-6 CAPLUS

CN Methanone, 4-morpholinyl[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]-  
(CA INDEX NAME)

Absolute stereochemistry.

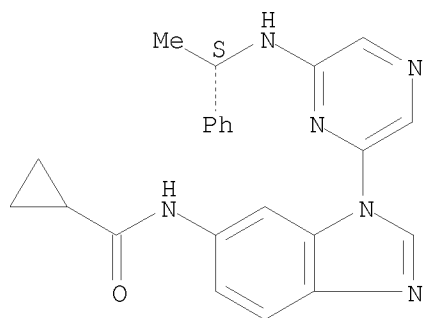


10581412

RN 629669-43-8 CAPLUS

CN Cyclopropanecarboxamide, N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

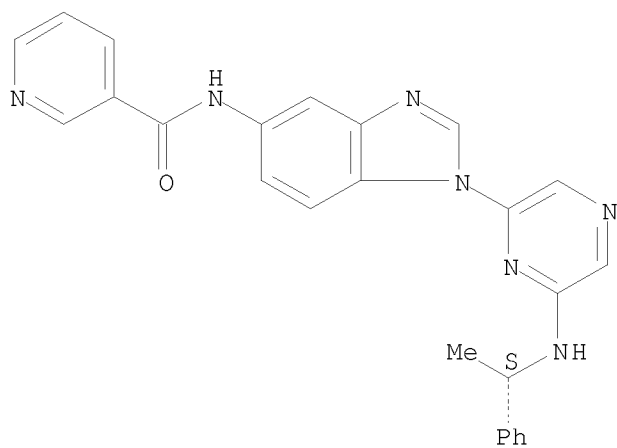
Absolute stereochemistry.



RN 629669-44-9 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

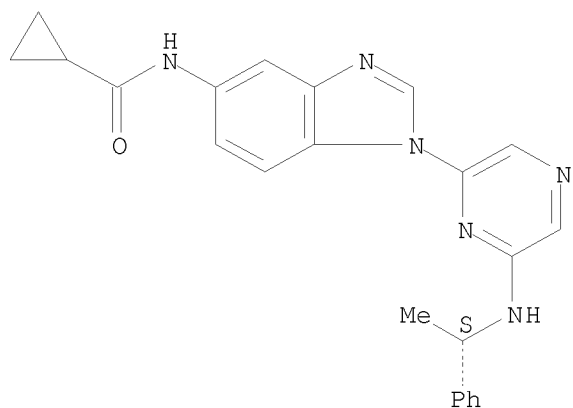


RN 629669-45-0 CAPLUS

CN Cyclopropanecarboxamide, N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

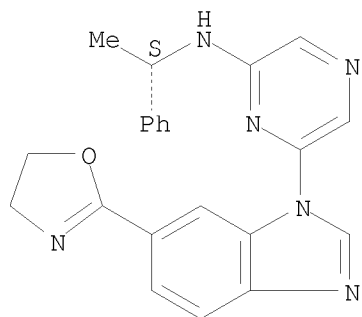
10581412



RN 629669-46-1 CAPLUS

CN 2-Pyrazinamine, 6-[6-(4,5-dihydro-2-oxazolyl)-1H-benzimidazol-1-yl]-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

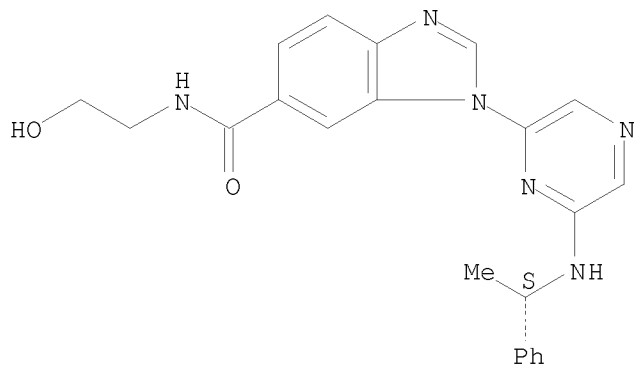
Absolute stereochemistry.



RN 629669-48-3 CAPLUS

CN 1H-Benzimidazole-6-carboxamide, N-(2-hydroxyethyl)-1-[6-[(1S)-1-phenylethylamino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

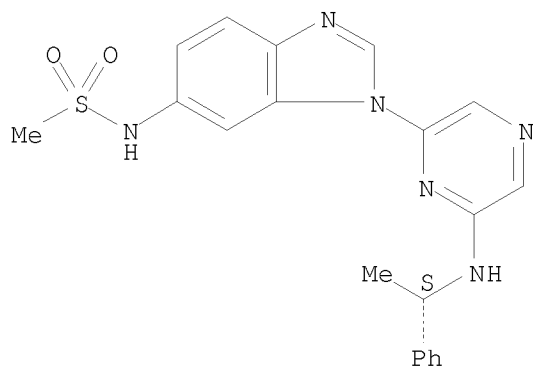


10581412

RN 629669-49-4 CAPLUS

CN Methanesulfonamide, N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

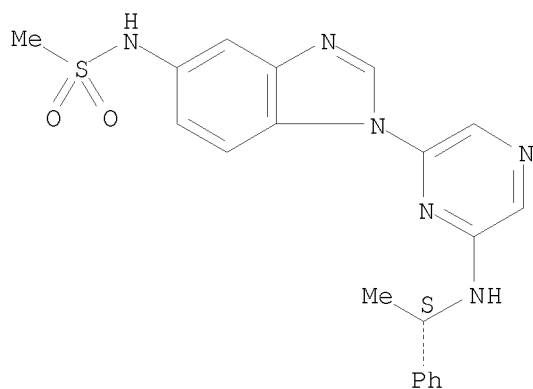
Absolute stereochemistry.



RN 629669-50-7 CAPLUS

CN Methanesulfonamide, N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

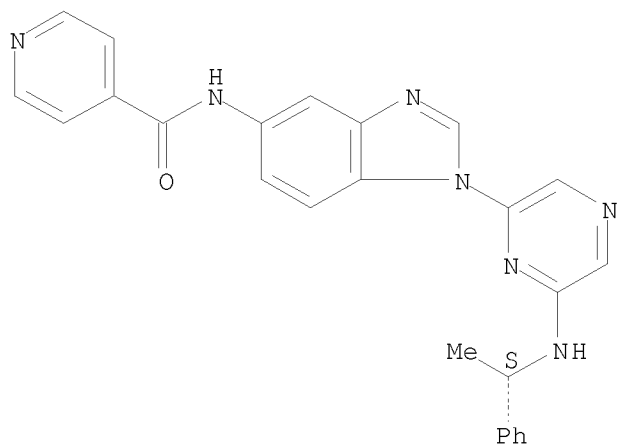


RN 629669-51-8 CAPLUS

CN 4-Pyridinecarboxamide, N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

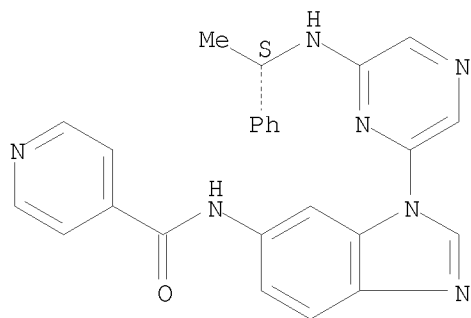
Absolute stereochemistry.

10581412



RN 629669-53-0 CAPLUS  
CN 4-Pyridinecarboxamide, N-[1-[6-[[[(1S)-1-phenylethyl]amino]pyrazinyl]-1H-benzimidazol-6-yl]- (9CI) (CA INDEX NAME)

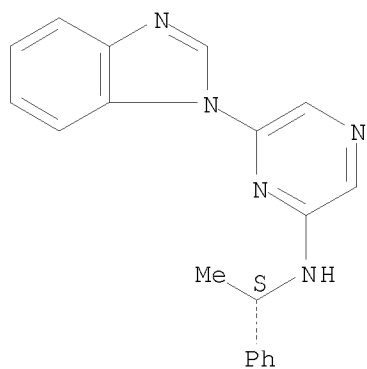
Absolute stereochemistry.



RN 629669-54-1 CAPLUS  
CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.

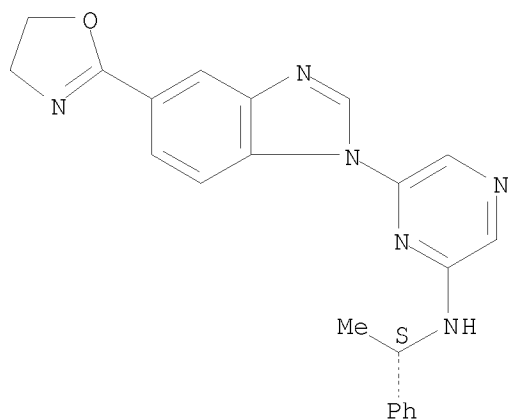
10581412



RN 629669-55-2 CAPLUS

CN 2-Pyrazinamine, 6-[5-(4,5-dihydro-2-oxazolyl)-1H-benzimidazol-1-yl]-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.



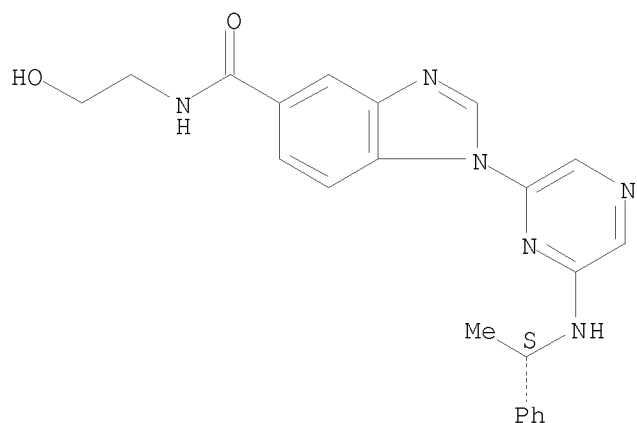
RN 629669-56-3 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-(2-hydroxyethyl)-1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.



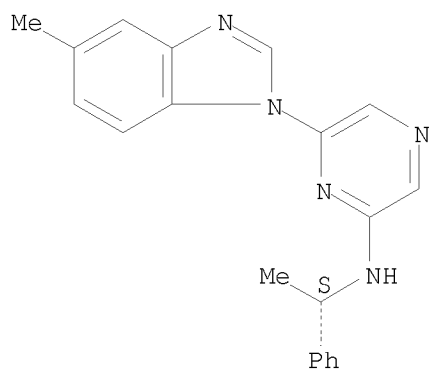
10581412



RN 629669-57-4 CAPLUS

CN 2-Pyrazinamine, 6-(5-methyl-1H-benzimidazol-1-yl)-N-[(1S)-1-phenylethyl]-  
(CA INDEX NAME)

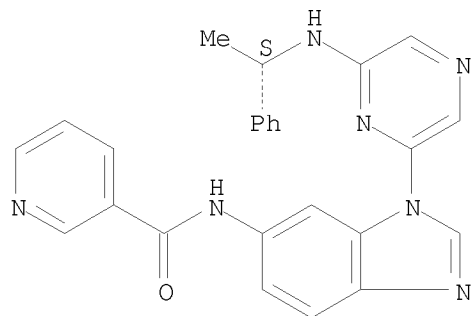
Absolute stereochemistry.



RN 629669-58-5 CAPLUS

CN 3-Pyridinecarboxamide, N-[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-  
benzimidazol-6-yl]- (CA INDEX NAME)

Absolute stereochemistry.

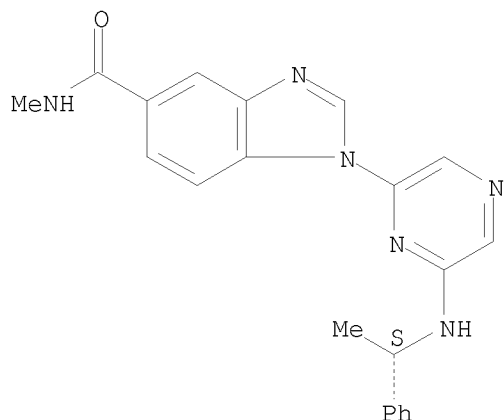


10581412

RN 629669-59-6 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-methyl-1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

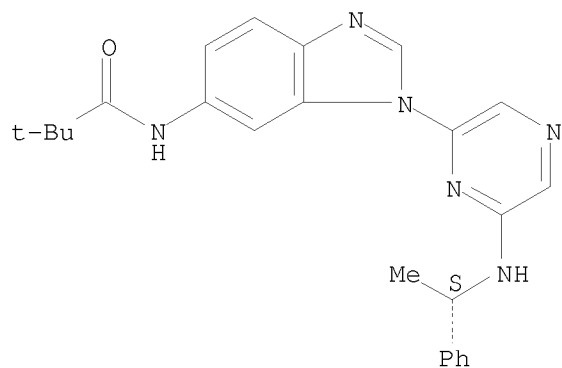
Absolute stereochemistry.



RN 629669-60-9 CAPLUS

CN Propanamide, 2,2-dimethyl-N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

Absolute stereochemistry.

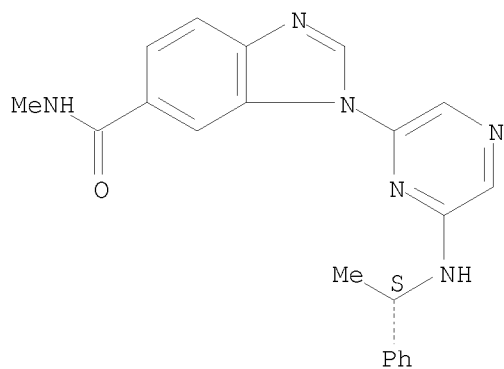


RN 629669-61-0 CAPLUS

CN 1H-Benzimidazole-6-carboxamide, N-methyl-1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

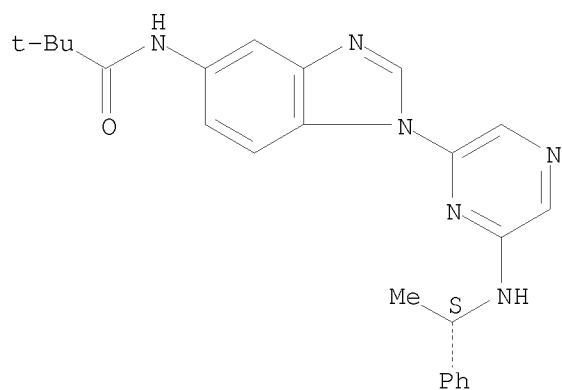
10581412



RN 629669-62-1 CAPLUS

CN Propanamide, 2,2-dimethyl-N-[1-[6-[[1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

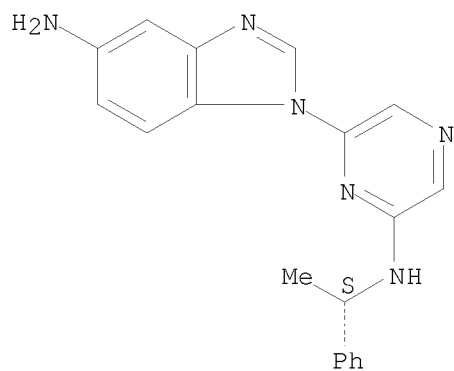


RN 629669-63-2 CAPLUS

CN 1H-Benzimidazol-5-amine, 1-[6-[[1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

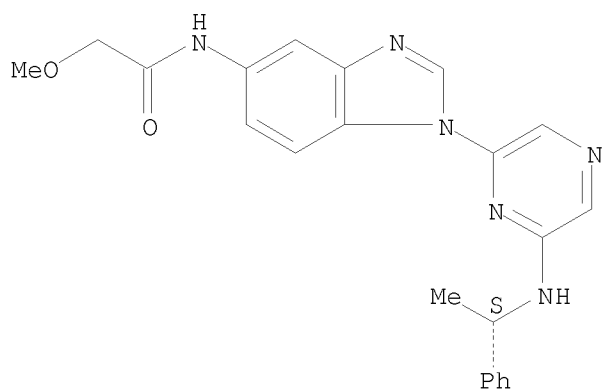
10581412



RN 629669-64-3 CAPLUS

CN Acetamide, 2-methoxy-N-[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

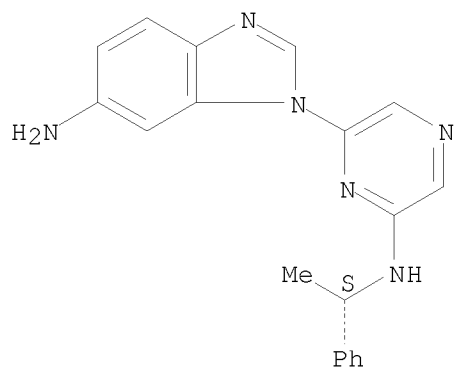


RN 629669-65-4 CAPLUS

CN 1H-Benzimidazol-6-amine, 1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

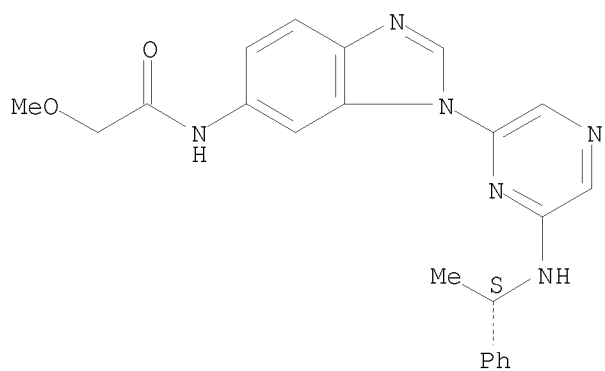
10581412



RN 629669-66-5 CAPLUS

CN Acetamide, 2-methoxy-N-[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

Absolute stereochemistry.

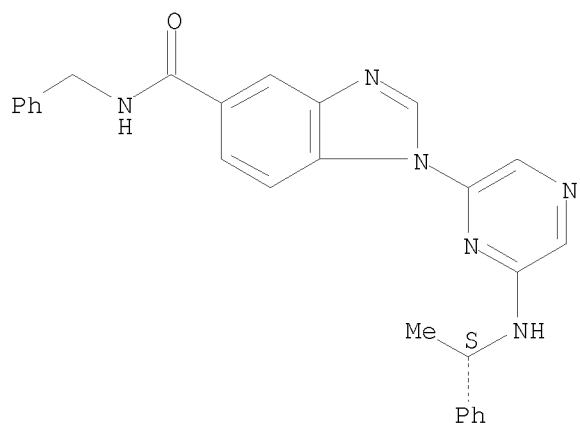


RN 629669-67-6 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, 1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-N-(phenylmethyl)- (CA INDEX NAME)

Absolute stereochemistry.

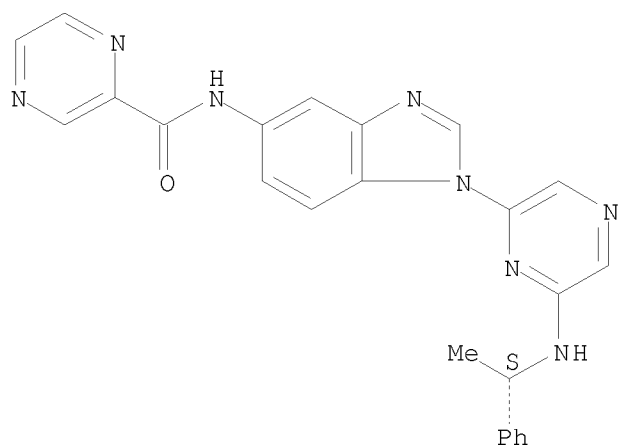
10581412



RN 629669-68-7 CAPLUS

CN 2-Pyrazinecarboxamide, N-[1-[6-[[1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

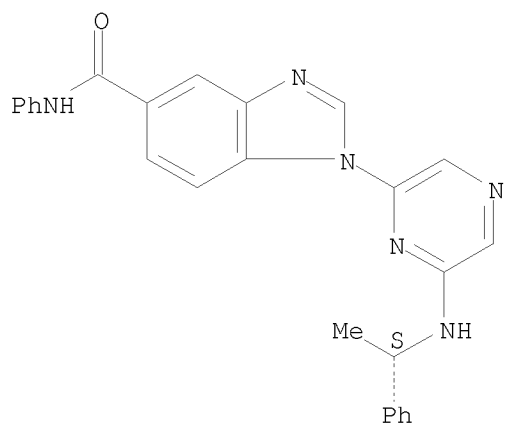


RN 629669-69-8 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-phenyl-1-[6-[[1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

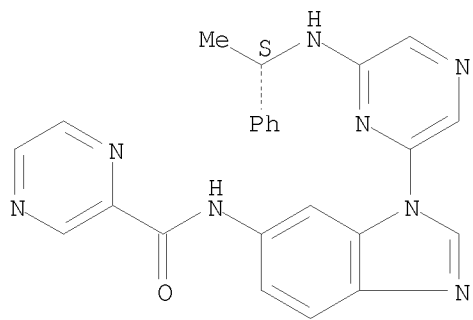
10581412



RN 629669-70-1 CAPLUS

CN 2-Pyrazinecarboxamide, N-[1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

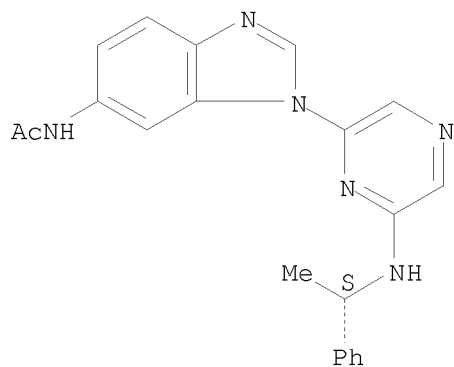
Absolute stereochemistry.



RN 629669-71-2 CAPLUS

CN Acetamide, N-[1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

Absolute stereochemistry.

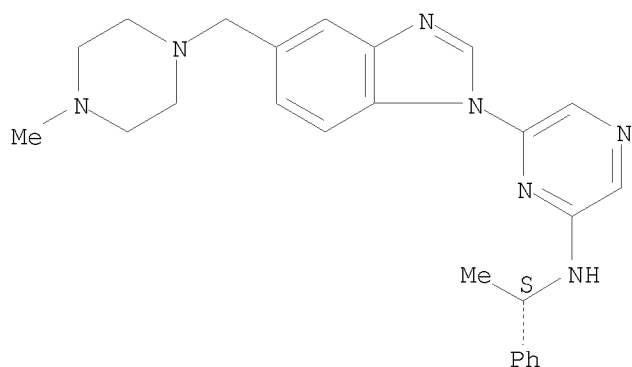


10581412

RN 629669-72-3 CAPLUS

CN 2-Pyrazinamine, 6-[5-[(4-methyl-1-piperazinyl)methyl]-1H-benzimidazol-1-yl]-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

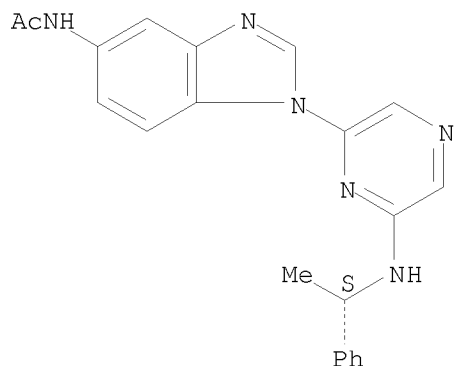
Absolute stereochemistry.



RN 629669-73-4 CAPLUS

CN Acetamide, N-[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.



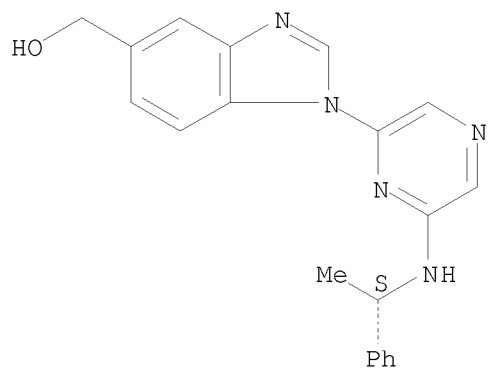
RN 629669-74-5 CAPLUS

CN 1H-Benzimidazole-5-methanol, 1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.



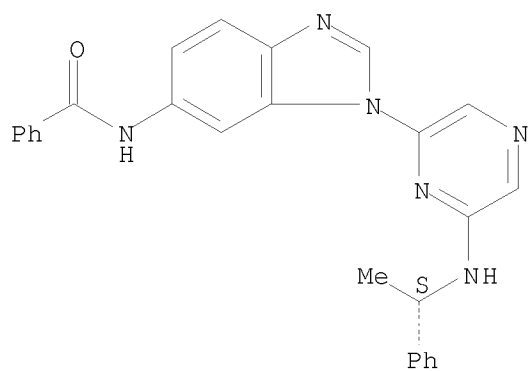
10581412



RN 629669-75-6 CAPLUS

CN Benzamide, N-[1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

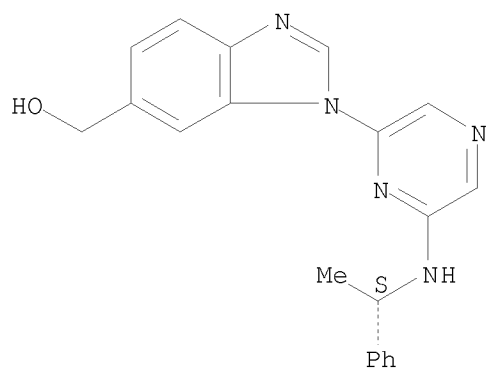
Absolute stereochemistry.



RN 629669-76-7 CAPLUS

CN 1H-Benzimidazole-6-methanol, 1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

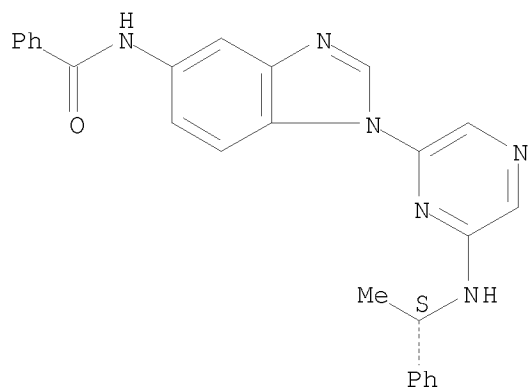


10581412

RN 629669-77-8 CAPLUS

CN Benzamide, N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

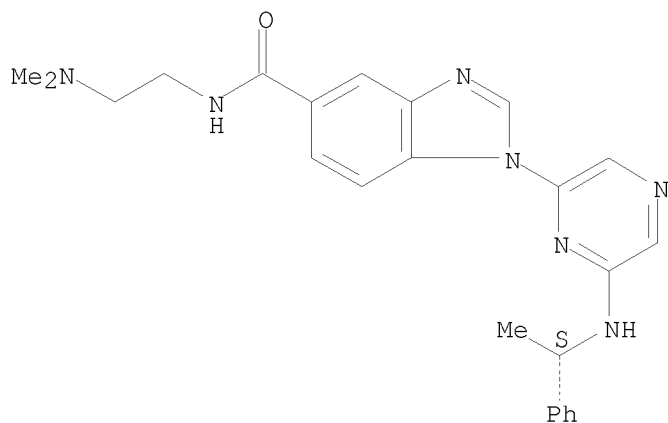
Absolute stereochemistry.



RN 629669-78-9 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-[2-(dimethylamino)ethyl]-1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

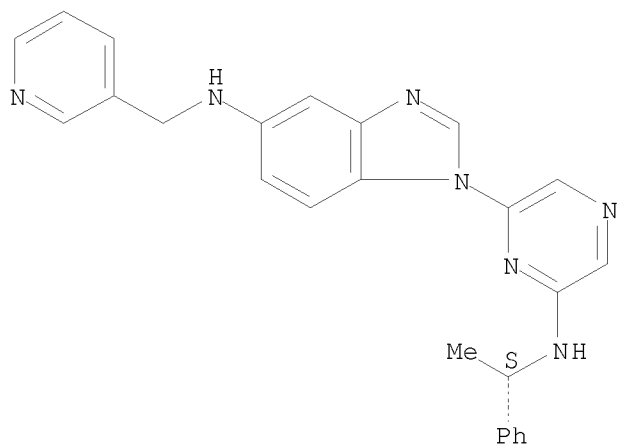


RN 629669-79-0 CAPLUS

CN 1H-Benzimidazol-5-amine, 1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)

Absolute stereochemistry.

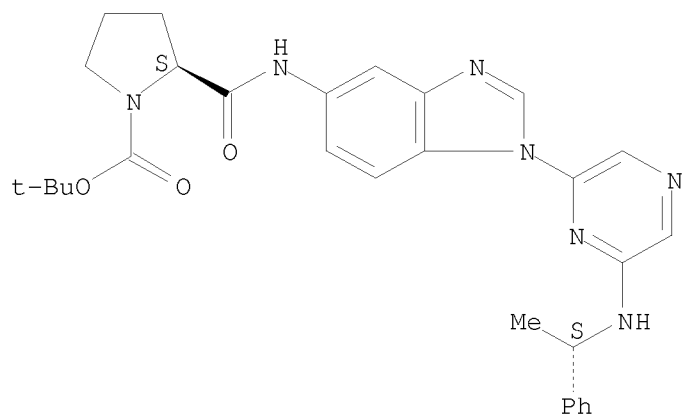
10581412



RN 629669-80-3 CAPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

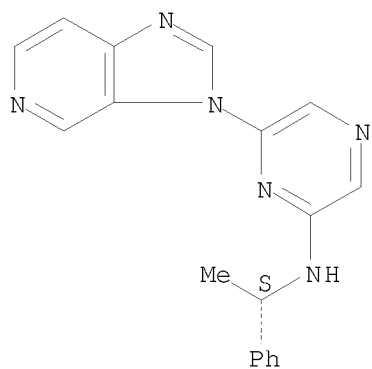


RN 629669-81-4 CAPLUS

CN 2-Pyrazinamine, 6-(3H-imidazo[4,5-c]pyridin-3-yl)-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

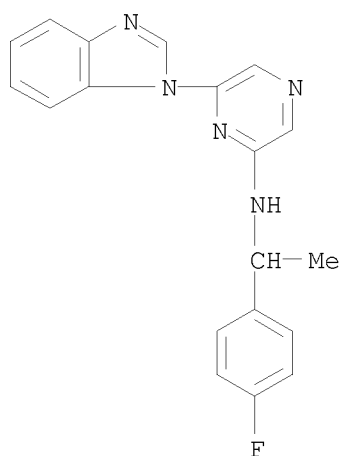
Absolute stereochemistry.

10581412



RN 629669-82-5 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[1-(4-fluorophenyl)ethyl]- (CA INDEX NAME)

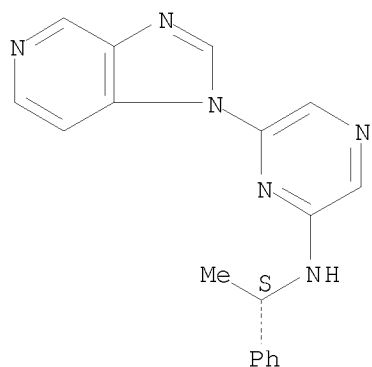


RN 629669-83-6 CAPLUS

CN 2-Pyrazinamine, 6-(1H-imidazo[4,5-c]pyridin-1-yl)-N-[(1S)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.

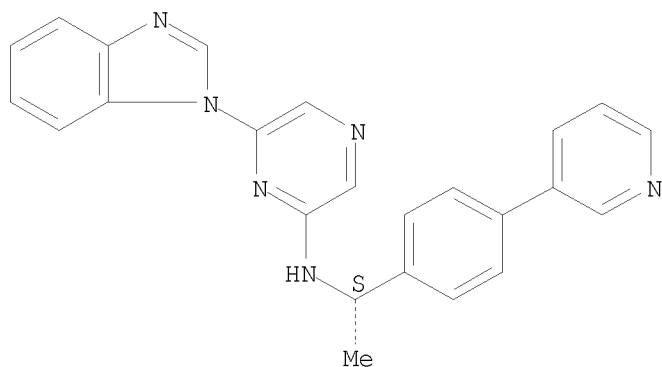
10581412



RN 629669-84-7 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1S)-1-[4-(3-pyridinyl)phenyl]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 629669-85-8 CAPLUS

CN 2-Pyrrolidinecarboxamide, N-[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

CN1C(S1)C(=O)Nc2ccc3c(c2)c4nnc5c4nc(NC6S(C6)C7=CC=CC=C7)nc5

CN 2-Pyrazinamine, N-[(1S)-1-phenylethyl]-6-[5-(4-pyridinyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)

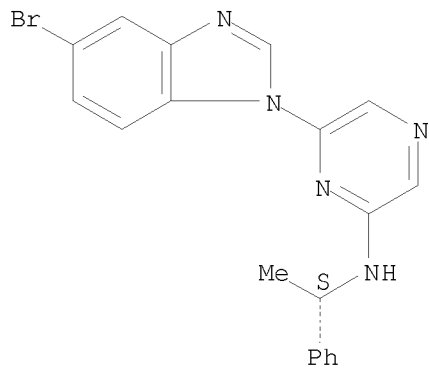
CN(C1=CC=CC=C1)S1=CC=CC=C1C2=CC=CC=C2N2C3=CC=CC=C3C4=CC=CC=C4N=C5C=CC=CC5=N

CN 2-Pyrazinamine, N-[(1S)-1-phenylethyl]-6-[5-(3-pyridinyl)-1H-benzimidazol-1-yl]- (CA INDEX NAME)

Page 222

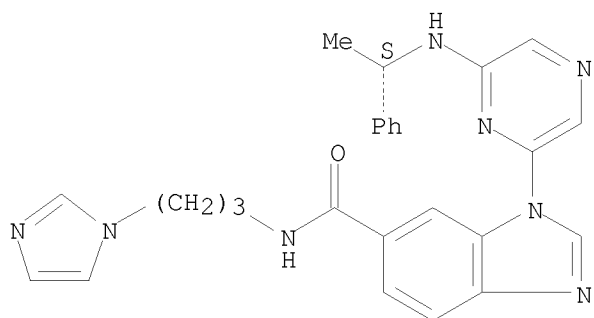
Chemical structure of compound 10: C[C@H](c1ccc(cc1))Nc2ccncc2Nc3cc4ccccc4cc3

Absolute stereochemistry.



Absolute stereochemistry.

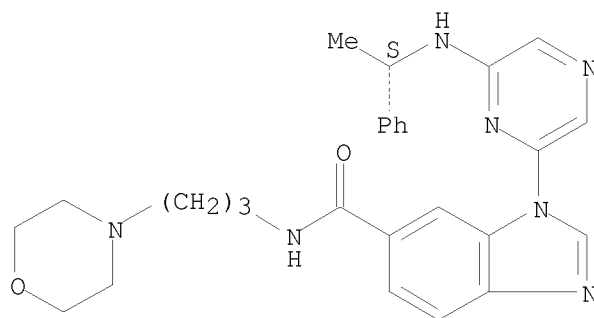
10581412



RN 629669-90-5 CAPLUS

CN 1H-Benzimidazole-6-carboxamide, N-[3-(4-morpholinyl)propyl]-1-[6-[(1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

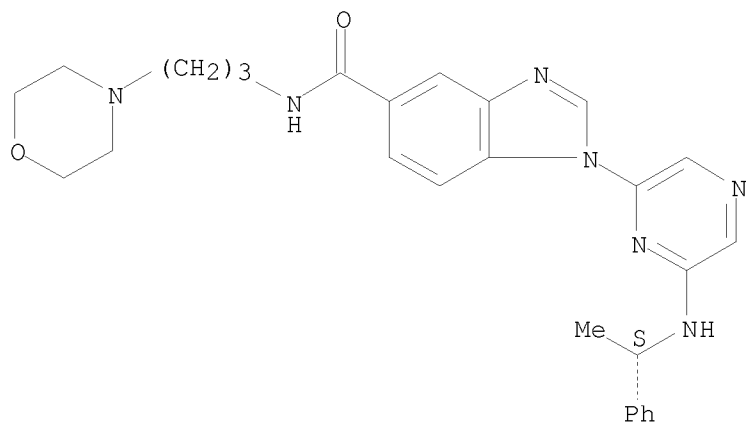
Absolute stereochemistry.



RN 629669-91-6 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-[3-(4-morpholinyl)propyl]-1-[6-[(1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.



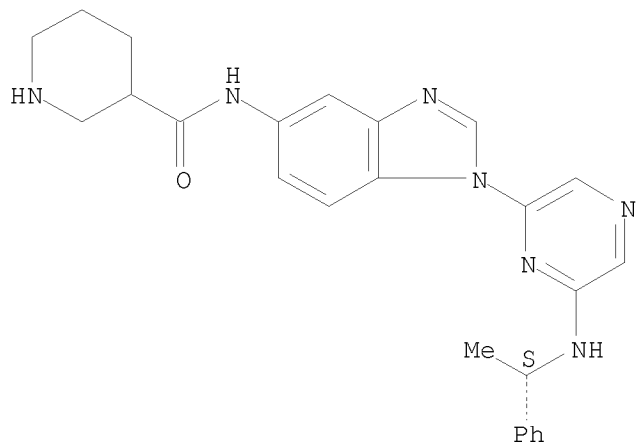
RN 629669-92-7 CAPLUS



10581412

CN 3-Piperidinecarboxamide, N-[1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

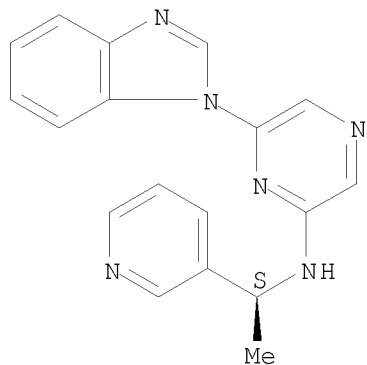
Absolute stereochemistry.



RN 629669-93-8 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1S)-1-(3-pyridinyl)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.

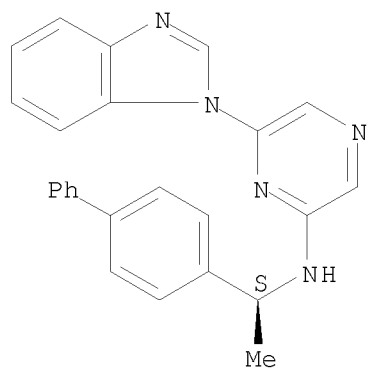


RN 629669-94-9 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1S)-1-[1,1'-biphenyl]-4-ylethyl]- (CA INDEX NAME)

Absolute stereochemistry.

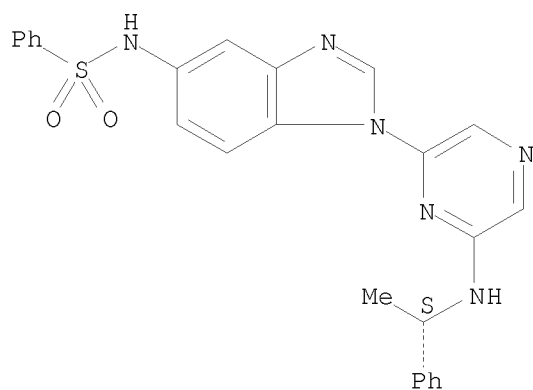
10581412



RN 629669-95-0 CAPLUS

CN Benzenesulfonamide, N-[1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

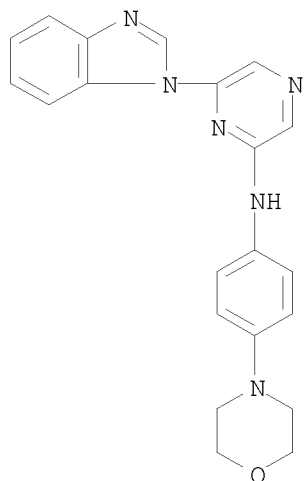
Absolute stereochemistry.



RN 629670-01-5 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[4-(4-morpholinyl)phenyl]- (CA INDEX NAME)

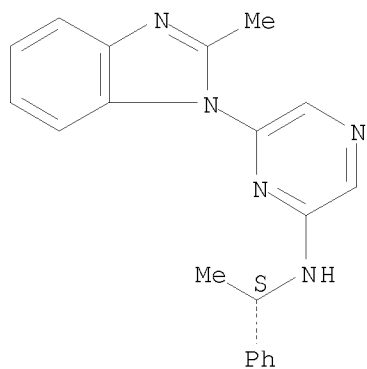
10581412



RN 629670-03-7 CAPLUS

CN 2-Pyrazinamine, 6-(2-methyl-1H-benzimidazol-1-yl)-N-[(1S)-1-phenylethyl]-  
(CA INDEX NAME)

Absolute stereochemistry.

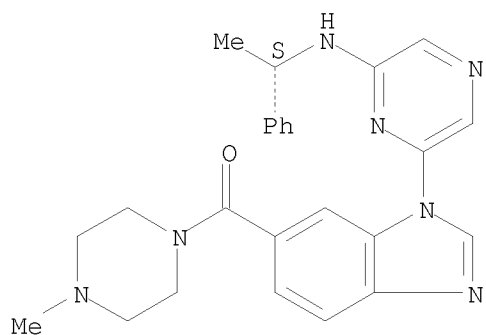


RN 629670-04-8 CAPLUS

CN Methanone, (4-methyl-1-piperazinyl) [1-[6-[[ (1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-6-yl]- (CA INDEX NAME)

Absolute stereochemistry.

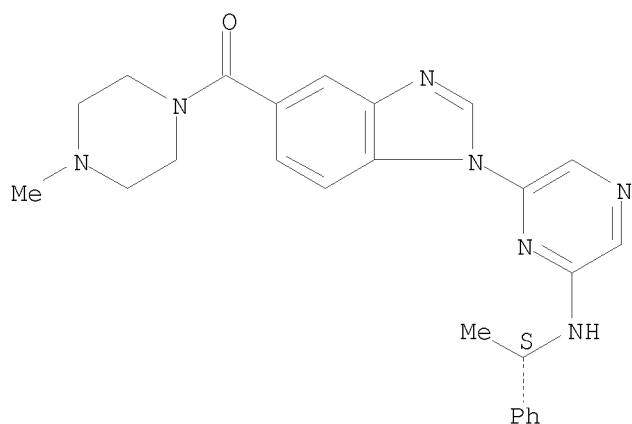
10581412



RN 629670-05-9 CAPLUS

CN Methanone, (4-methyl-1-piperazinyl)[1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]- (CA INDEX NAME)

Absolute stereochemistry.

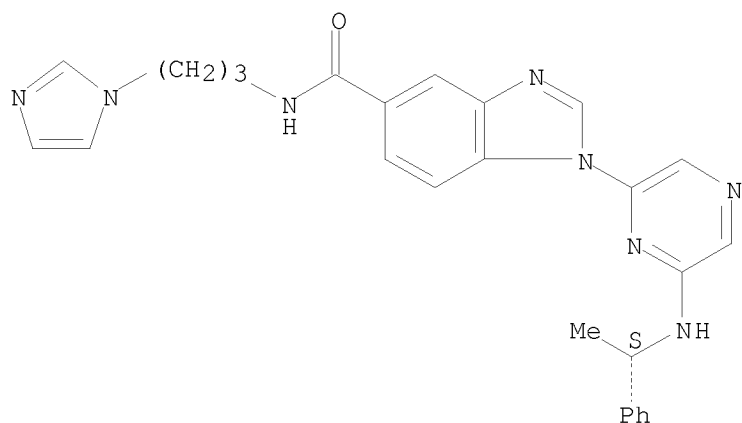


RN 629670-06-0 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-[3-(1H-imidazol-1-yl)propyl]-1-[6-[[1-(1S)-1-phenylethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

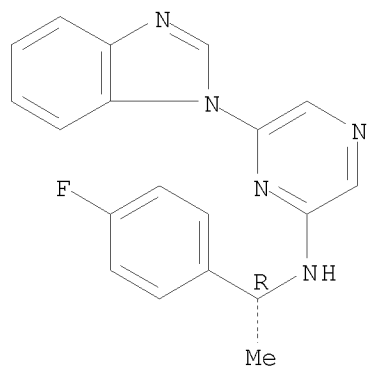
10581412



RN 629670-07-1 CAPLUS

CN 2-Pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1R)-1-(4-fluorophenyl)ethyl]-  
(CA INDEX NAME)

Absolute stereochemistry.

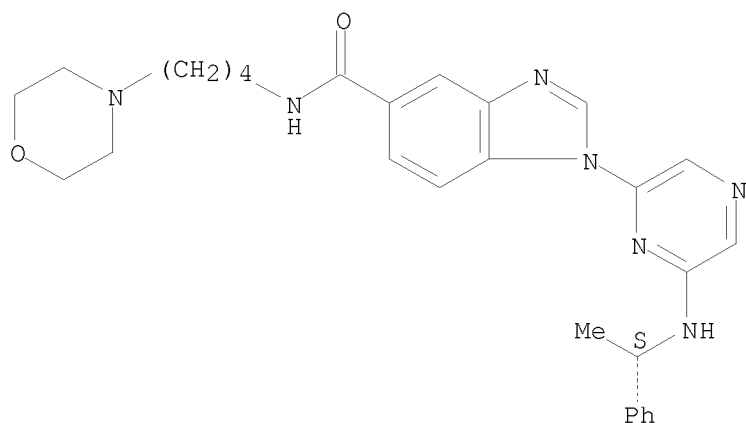


RN 629670-08-2 CAPLUS

CN 1H-Benzimidazole-5-carboxamide, N-[4-(4-morpholinyl)butyl]-1-[6-[(1S)-1-phenylethyl]amino]-2-pyrazinyl-  
(CA INDEX NAME)

Absolute stereochemistry.

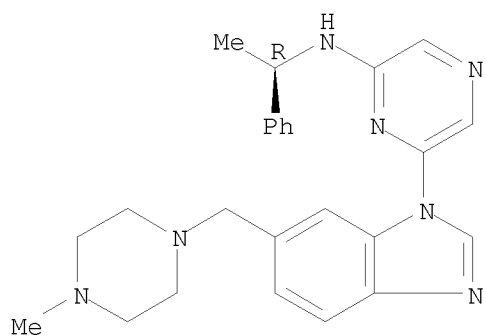
10581412



RN 629670-09-3 CAPLUS

CN 2-Pyrazinamine, 6-[6-[(4-methyl-1-piperazinyl)methyl]-1H-benzimidazol-1-yl]-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 629670-10-6 CAPLUS

CN 3-Piperidinecarboxamide, N-[1-[6-[[[(1S)-1-phenylethyl]amino]-2-pyrazinyl]-1H-benzimidazol-5-yl]-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

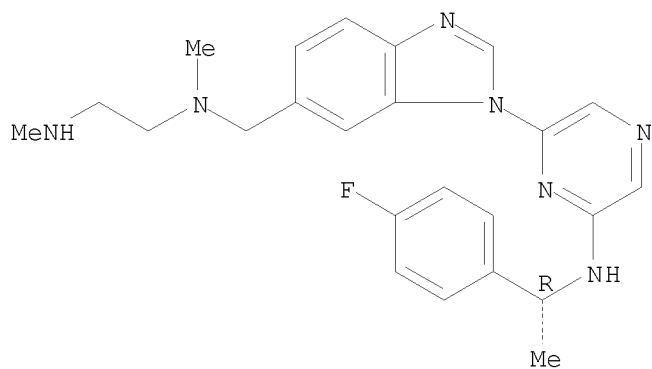
570-11-7 CAPLUS  
pyrazinamine, 6-(1H-benzimidazol-1-yl)-N-[(1R)-1-[1,1'-biphenyl]-4-  
thyl]- (CA INDEX NAME)

stereochemistry.

570-12-8 CAPLUS  
-Ethanediamine, N1-[[1-[6-[[ (1R)-1-(4-fluorophenyl)ethyl]amino]-2-  
aziny]-1H-benzimidazol-6-yl]methyl]-N1,N2-dimethyl- (CA INDEX NAME)

stereochemistry.

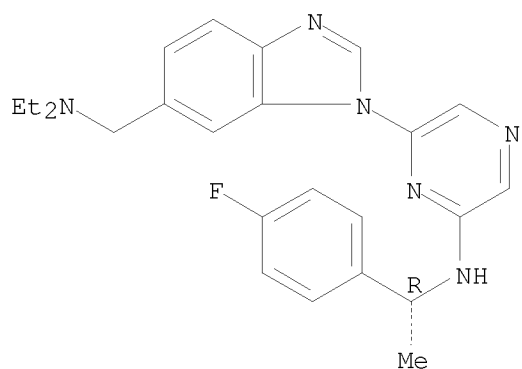
10581412



RN 629670-13-9 CAPLUS

CN 1H-Benzimidazole-6-methanamine, N,N-diethyl-1-[6-[[ (1R)-1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]- (CA INDEX NAME)

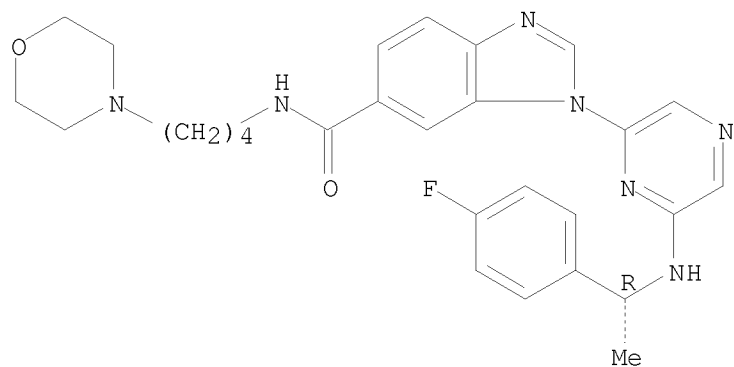
Absolute stereochemistry.



RN 629670-14-0 CAPLUS

CN 1H-Benzimidazole-6-carboxamide, 1-[6-[[ (1R)-1-(4-fluorophenyl)ethyl]amino]-2-pyrazinyl]-N-[4-(4-morpholinyl)butyl]- (CA INDEX NAME)

Absolute stereochemistry.



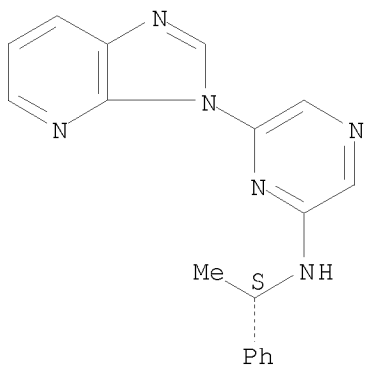


10581412

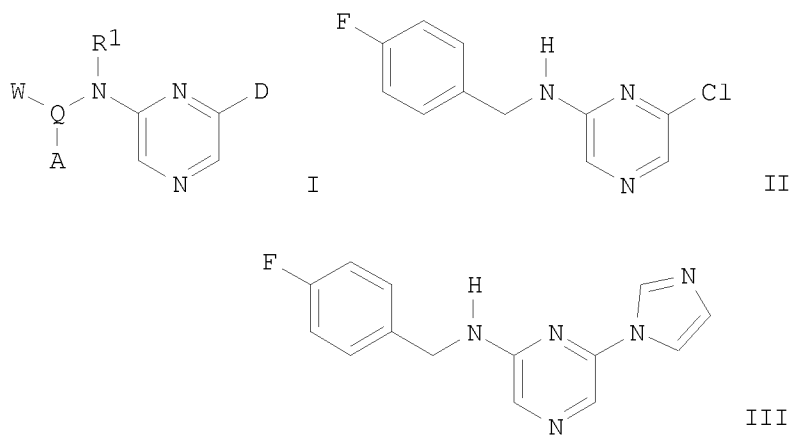
RN 629670-17-3 CAPLUS

CN 2-Pyrazinamine, 6-(3H-imidazo[4,5-b]pyridin-3-yl)-N-[(1S)-1-phenylethyl]-  
(CA INDEX NAME)

Absolute stereochemistry.



GI



AB Title compds. I [D = (un)substituted heterocyclic ring, e.g., benzimidazole, indazole, imidazole; R<sup>1</sup> = H, alkyl, cycloalkyl; Q = bond CH<sub>2</sub>, alkyl; A = (un)substituted aryl, hetaryl (sic); W = H, alkyl, alkenyl, etc.] and their pharmaceutically acceptable salts were prepared For example, coupling of chloropyrazine II, e.g., prepared from 4-fluorobenzylamine and 2,6-dichloropyrazine, and imidazole afforded claimed imidazolylpyrazine III in 65% yield. In inhibition studies of the Tel-Jak3 cell line, 23-examples of compds. I exhibited a capacity to inhibit 50% of cell growth at a concentration of 50  $\mu$ M. Compds. I are useful for the treatment of receptor type tyrosine kinase-related diseases.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10581412

NEWS 12 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING  
NEWS 13 FEB 06 Patent sequence location (PSL) data added to USGENE  
NEWS 14 FEB 10 COMPENDEX reloaded and enhanced  
NEWS 15 FEB 11 WTEXTILES reloaded and enhanced  
NEWS 16 FEB 19 New patent-examiner citations in 300,000 CA/CAPLUS  
patent records provide insights into related prior  
art  
NEWS 17 FEB 19 Increase the precision of your patent queries -- use  
terms from the IPC Thesaurus, Version 2009.01  
NEWS 18 FEB 23 Several formats for image display and print options  
discontinued in USPATFULL and USPAT2  
NEWS 19 FEB 23 MEDLINE now offers more precise author group fields  
and 2009 MeSH terms  
NEWS 20 FEB 23 TOXCENTER updates mirror those of MEDLINE - more  
precise author group fields and 2009 MeSH terms  
NEWS 21 FEB 23 Three million new patent records blast AEROSPACE into  
STN patent clusters  
NEWS 22 FEB 25 USGENE enhanced with patent family and legal status  
display data from INPADOCDB  
NEWS 23 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display  
formats  
NEWS 24 MAR 11 EPFULL backfile enhanced with additional full-text  
applications and grants  
NEWS 25 MAR 11 ESBIOBASE reloaded and enhanced  
NEWS 26 MAR 20 CAS databases on STN enhanced with new super role  
for nanomaterial substances  
  
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN Customer  
agreement. Please note that this agreement limits use to scientific  
research. Use for software development or design or implementation  
of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:08:56 ON 21 MAR 2009

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 14:09:07 ON 21 MAR 2009

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2009 American Chemical Society (ACS)

10581412

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 MAR 2009 HIGHEST RN 1124448-78-7  
DICTIONARY FILE UPDATES: 20 MAR 2009 HIGHEST RN 1124448-78-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

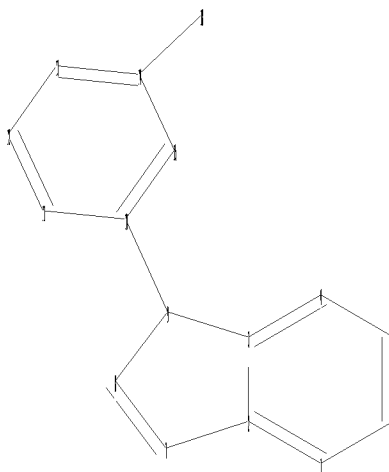
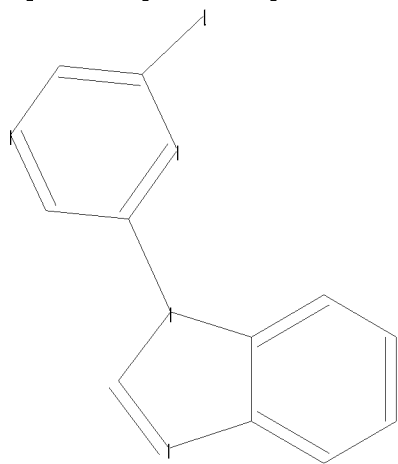
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10581412.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ring/chain nodes :

18

chain bonds :

9-10 14-18

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 10-11 10-15 11-12 12-13 13-14  
14-15

exact/norm bonds :

2-7 3-9 7-8 8-9 9-10

exact bonds :

14-18

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15

isolated ring systems :

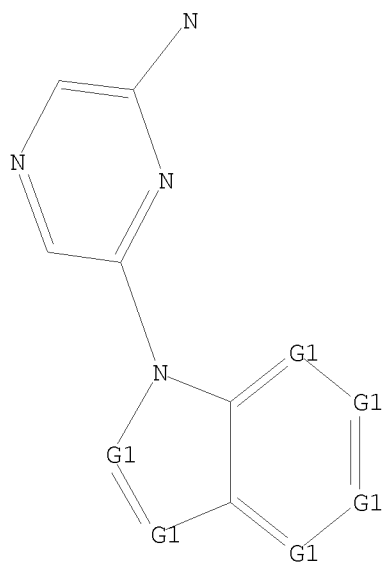
containing 1 : 10 :

G1 : C, N

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 18:Atom

$$\Rightarrow d$$

L1	STR
----	-----



Structure attributes must be viewed using STN Express query preparation.

=> s ll sam

SAMPLE SEARCH INITIATED 14:09:32 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 183 TO ITERATE

100.0% PROCESSED      183 ITERATIONS

19 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH       \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2849 TO 4471

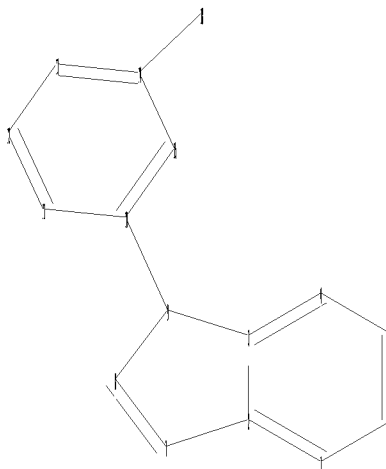
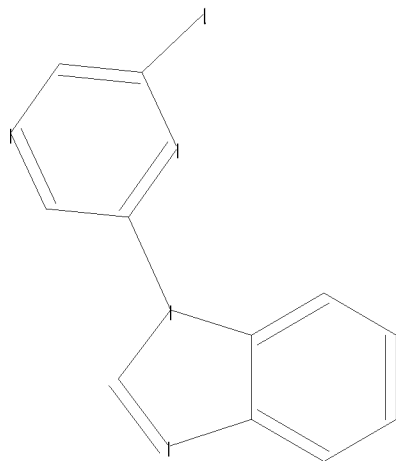
PROJECTED ANSWERS: 119 TO 641

L2                      19 SEA SSS SAM L1

10581412

=> del l1-  
DELETE L1-L2? (Y)/N:y

=>  
Uploading C:\Program Files\Stnexp\Queries\10581412.str



ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
ring/chain nodes :  
18  
chain bonds :  
9-10 14-18  
ring bonds :  
1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 10-11 10-15 11-12 12-13 13-14  
14-15  
exact/norm bonds :  
2-7 3-9 7-8 8-9 9-10  
exact bonds :  
14-18  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15  
isolated ring systems :  
containing 1 : 10 :

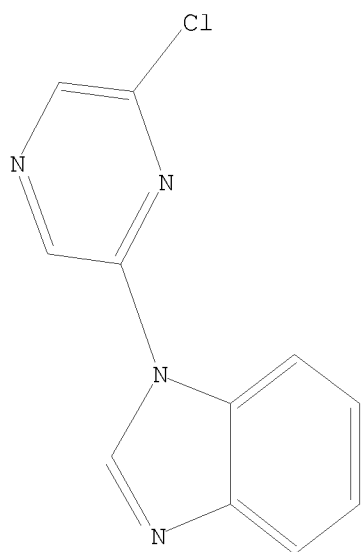
G1:C,N

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 18:Atom

L1 STRUCTURE UPLOADED

=> d  
L1 HAS NO ANSWERS  
L1 STR

10581412



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1 sam
SAMPLE SEARCH INITIATED 14:10:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -          0 TO ITERATE

100.0% PROCESSED          0 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   0 TO      0
PROJECTED ANSWERS:      0 TO      0
```

L2 0 SEA SSS SAM L1

```
=> s l1 ful
FULL SEARCH INITIATED 14:10:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -          54 TO ITERATE
```

```
100.0% PROCESSED          54 ITERATIONS          10 ANSWERS
SEARCH TIME: 00.00.01
```

L3 10 SEA SSS FUL L1

```
=> fil cpal
'CPAL' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'REGISTRY'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available.  If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.
```

10581412

=> fil capl

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

186.36

186.58

FILE 'CAPLUS' ENTERED AT 14:10:28 ON 21 MAR 2009

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 21 Mar 2009 VOL 150 ISS 13

FILE LAST UPDATED: 20 Mar 2009 (20090320/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 3 L3

=> d l4 ibib hitstr abs 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:638866 CAPLUS

DOCUMENT NUMBER: 143:153403

TITLE: Preparation of benzimidazolylazines and related compounds as selective JAK3 kinase inhibitors

INVENTOR(S): Styles, Michelle Leanne; Zeng, Jun; Treutlein, Herbert Rudolf; Wilks, Andrew Frederick; Kling, Marcel Robert; Bu, Xianyong; Burns, Christopher John

PATENT ASSIGNEE(S): Cytopia Research Pty. Ltd., Australia

SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066156	A1	20050721	WO 2005-AU22	20050112
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, BY, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005203919	A1	20050721	AU 2005-203919	20050112
CA 2545427	A1	20050721	CA 2005-2545427	20050112
EP 1704145	A1	20060927	EP 2005-700054	20050112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
GB 2424882	A	20061011	GB 2006-12225	20050112
GB 2424882	B	20080806		
CN 1906190	A	20070131	CN 2005-80001563	20050112
BR 2005006817	A	20070529	BR 2005-6817	20050112
GB 2432834	A	20070606	GB 2007-4098	20050112
JP 2007517807	T	20070705	JP 2006-548036	20050112
IN 2006KN00845	A	20070413	IN 2006-KN845	20060406
KR 2006126983	A	20061211	KR 2006-711057	20060605
MX 2006007640	A	20070417	MX 2006-7640	20060630
US 20080207613	A1	20080828	US 2006-585916	20060711
PRIORITY APPLN. INFO.:			AU 2004-900103	A 20040112
			GB 2006-12225	A3 20050112
			WO 2005-AU22	W 20050112

OTHER SOURCE(S): CASREACT 143:153403; MARPAT 143:153403

IT 860300-93-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of benzimidazolylazines and related compds.

as

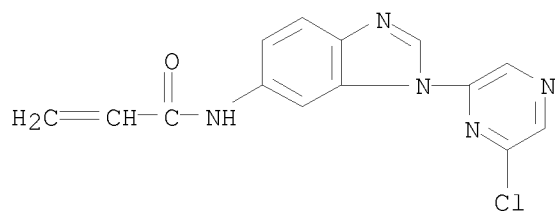
selective JAK3 kinase inhibitors)

RN 860300-93-2 CAPLUS



10581412

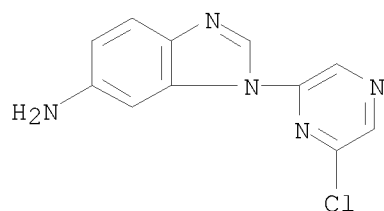
CN 2-Propenamide, N-[1-(6-chloro-2-pyrazinyl)-1H-benzimidazol-6-yl]- (CA INDEX NAME)



IT 860301-24-2P 860301-25-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation of benzimidazolylazines and related compds. as selective JAK3  
kinase inhibitors)

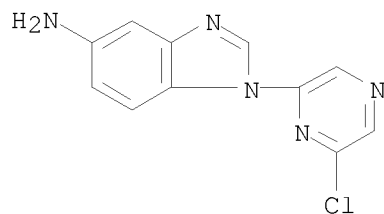
RN 860301-24-2 CAPLUS

CN 1H-Benzimidazol-6-amine, 1-(6-chloro-2-pyrazinyl)- (CA INDEX NAME)

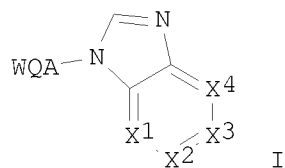


RN 860301-25-3 CAPLUS

CN 1H-Benzimidazol-5-amine, 1-(6-chloro-2-pyrazinyl)- (CA INDEX NAME)



GI



AB Title compds. [I; 1 of X1-X4 = CZ, the others = CY; or 1 of X1-X4 = N, 1 = CZ, the others = CY; A = (substituted) pyridyl, pyrazinyl, pyrimidyl, triazinyl, pyridazinyl; Q = bond, halo, alkyl, O, S, SO, SO<sub>2</sub>, CO, CS; W = H, alkyl, aryl, heteroaryl, cycloalkyl, alkylaryl, alkylheteroaryl, cycloalkyl, (substituted) amino, etc.; Y = H, halo, cyano, NO<sub>2</sub>, CF<sub>3</sub>, OH, alkyl, aminoalkyl, alkoxyalkyl, alkylheteroaryl, alkylthio, etc.; Z = (CH<sub>2</sub>)<sub>n</sub>COCR<sub>9</sub>:CHR<sub>10</sub>, (CH<sub>2</sub>)<sub>n</sub>NR<sub>8</sub>COC.tplbond.CR<sub>9</sub>, etc.; n = 0-4; R<sub>8</sub> = H, alkyl; R<sub>9</sub>, R<sub>10</sub> = H, alkyl, alkylamino, alkylheteroaryl, etc.; R<sub>9</sub>R<sub>10</sub> = atoms to form a 5-8 membered ring], were prepared Thus, a mixture of 1-[6-(tert-butylamino)pyrazin-2-yl]-1H-benzimidazol-5-amine (preparation given), Et<sub>3</sub>N, EDAC.HCl, 4-(1-pyrrolidino)pyridine, and acrylic acid were stirred together for 3 days in CH<sub>2</sub>Cl<sub>2</sub> to give N-[1-[6-(tert-butylamino)pyrazin-2-yl]-1H-benzimidazol-5-yl]acrylamide. The latter gave ≥50% inhibition of JAK3 at 20 μM.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10581412

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:523444 CAPLUS

DOCUMENT NUMBER: 143:60004

TITLE: Preparation of pyrazine derivatives as kinase inhibitors

INVENTOR(S): Burns, Christopher John; Wilks, Andrew Frederick; Bu, Xianyong

PATENT ASSIGNEE(S): Cytopia Research Pty Ltd., Australia

SOURCE: PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005054230	A1	20050616	WO 2004-AU1690	20041203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004294355	A1	20050616	AU 2004-294355	20041203
CA 2545425	A1	20050616	CA 2004-2545425	20041203
EP 1689739	A1	20060816	EP 2004-801112	20041203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
GB 2423083	A	20060816	GB 2006-11894	20041203
GB 2423083	B	20070711		
CN 1878767	A	20061213	CN 2004-80033482	20041203
BR 2004017345	A	20070313	BR 2004-17345	20041203
JP 2007513094	T	20070524	JP 2006-541751	20041203
IN 2006KN00616	A	20070727	IN 2006-KN616	20060316
MX 2006005983	A	20060907	MX 2006-5983	20060525
US 20070099935	A1	20070503	US 2006-581412	20060601
KR 2006126981	A	20061211	KR 2006-710931	20060602
PRIORITY APPLN. INFO.:			AU 2003-906686	A 20031203
			AU 2004-902060	A 20040420
			WO 2004-AU1690	W 20041203

OTHER SOURCE(S): CASREACT 143:60004; MARPAT 143:60004

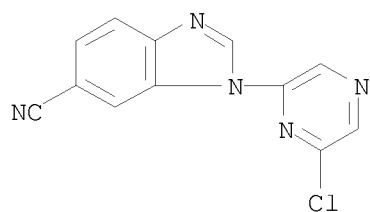
IT 853888-36-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of pyrazine derivs. as kinase inhibitors)

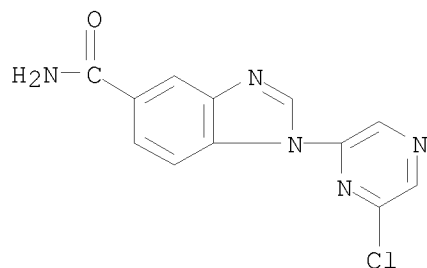
RN 853888-36-5 CAPLUS

CN 1H-Benzimidazole-6-carbonitrile, 1-(6-chloro-2-pyrazinyl)- (CA INDEX NAME)

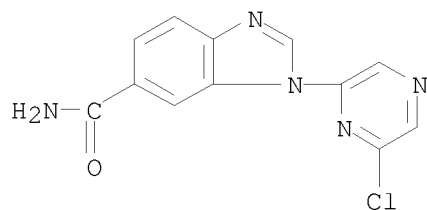
10581412



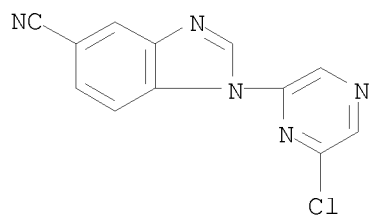
IT 853888-52-5P 853888-53-6P 853888-54-7P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation of pyrazine derivs. as kinase inhibitors)  
RN 853888-52-5 CAPLUS  
CN 1H-Benzimidazole-5-carboxamide, 1-(6-chloro-2-pyrazinyl)- (CA INDEX NAME)



RN 853888-53-6 CAPLUS  
CN 1H-Benzimidazole-6-carboxamide, 1-(6-chloro-2-pyrazinyl)- (CA INDEX NAME)



RN 853888-54-7 CAPLUS  
CN 1H-Benzimidazole-5-carbonitrile, 1-(6-chloro-2-pyrazinyl)- (CA INDEX  
NAME)



GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [A = (un)substituted-aryl, -heteroaryl; W, X, Y and Z = (un)substituted carbon, or one of W, X, Y and Z is nitrogen and the rest (un)substituted carbon; Q = bond, CH<sub>2</sub>, alkyl; R<sub>1</sub> = H, alkyl, cycloalkyl, etc.; R<sub>2</sub> = H, (un)substituted-alkyl, -alkenyl, etc.; R<sub>3</sub> = 0-2 substituents selected from H, alkyl, NR<sub>5</sub>R<sub>6</sub>; R<sub>4</sub> independently = H, halo, alkyl, etc.; R<sub>5</sub> and R<sub>6</sub> independently = H, alkyl] and their pharmaceutically acceptable salts, are prepared and disclosed as kinase inhibitors. Thus, e.g., II was prepared by coupling of (6-chloro-pyrazin-2yl)-(1-benzyl)-amine with benzimidazole. The activity of I was evaluated and it was revealed that selected compds. of the invention displayed an inhibition capacity of 50% or greater at a concentration of 20  $\mu$ M. I as inhibitors of kinases should prove useful in the treatment of diseases such as, but not limited to, rheumatic, viral and cardiovascular diseases. Pharmaceutical compns. comprising I are disclosed.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10581412

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:41279 CAPLUS

DOCUMENT NUMBER: 140:94066

TITLE: Preparation of 2,6-disubstituted pyrazines that inhibit/modulate cyclin dependent kinases

INVENTOR(S): Woolford, Alison Jo-Anne; Berdini, Valerio; Oreilly, Marc; Padova, Alessandro; Saxty, Gordon; Wyatt, Paul Graham

PATENT ASSIGNEE(S): Astex Technology Limited, UK

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
WO 2004004730	A2	20040115	WO 2003-GB2905	20030704
WO 2004004730	A3	20040429		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003242860	A1	20040123	AU 2003-242860	20030704
PRIORITY APPLN. INFO.:			GB 2002-15775	A 20020706
			WO 2003-GB2905	W 20030704

OTHER SOURCE(S): MARPAT 140:94066

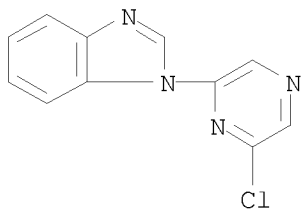
IT 380639-51-0P, 1-(6-Chloropyrazin-2-yl)-1H-benzimidazole  
642459-08-3P, 1-(6-Chloropyrazin-2-yl)-1,3-dihydrobenzimidazol-2-one

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2,6-disubstituted pyrazines that inhibit/modulate cyclin dependent kinases)

RN 380639-51-0 CAPLUS

CN 1H-Benzimidazole, 1-(6-chloro-2-pyrazinyl)- (CA INDEX NAME)

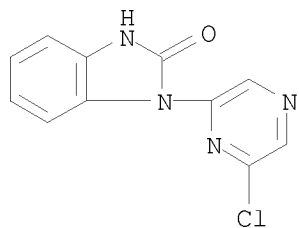


RN 642459-08-3 CAPLUS

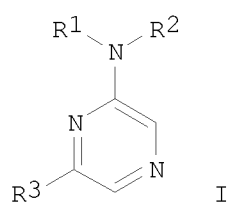
CN 2H-Benzimidazol-2-one, 1-(6-chloro-2-pyrazinyl)-1,3-dihydro- (CA INDEX

10581412

NAME)



GI



AB Title compds. I [R1 = H, cycloalkyl, cycloalkenyl, phenyl-alkyl, etc.; R2 = (hetero)aryl, cycloalkyl, cycloalkenyl, etc.; R3 = halo, CN, N-linked monocyclic N-containing heterocycle, etc.] are prepared For instance, 2,6-dichloropyrazine is reacted with cyclopentylamine (THF, Et3N, 50°, 1 day) to give 2-chloro-6-(cyclopentylamino)pyrazine (II). II has IC50 = 52  $\mu$ M for CDK2 kinase. I are useful in the prophylaxis or treatment of a diseases mediated by a cyclin dependent kinase.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT